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EVALUATION OF AEGIS SPARES ALLOCATION MODEL, (U)  
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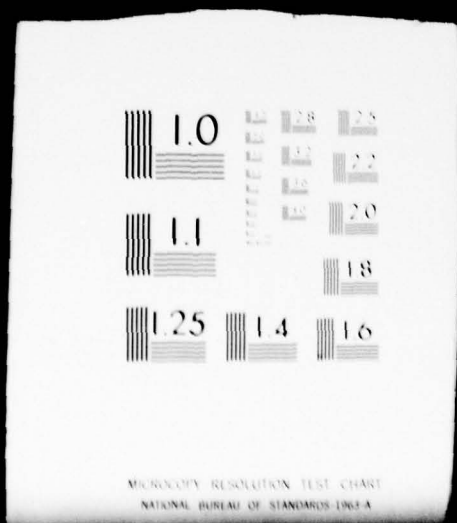
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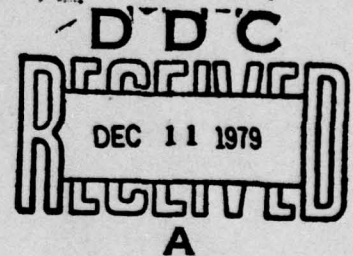
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# EVALUATION of AEGIS SPARES ALLOCATION MODEL



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6 EVALUATION OF AEGIS SPARES ALLOCATION MODEL,

14  
REPORT 138

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ABSTRACT

This study evaluates the proposed Spares Allocation Model for determining shipboard supply requirements for supporting the AEGIS Weapon System. Included in this evaluation were: (1) a detailed comparison of the proposed model with several alternative models; (2) a sensitivity analysis of two data elements required by the proposed model; (3) an examination of theoretical differences between the proposed model and a conceptually similar model (Black & Proschan); and (4) an examination of the ADP (Automatic Data Processing) requirements for the proposed model. Model comparisons were made in terms of range of items stocked, investment, effectiveness, and range movement. Historical usage data were used in measuring effectiveness. The study indicated the proposed Spares Allocation Model and the Black & Proschan Model would give significant improvement in support over the other alternatives. However, these two models produced significantly larger ranges than the alternatives and, at high system protection levels, required significantly higher investment. Both models require large computer core storage capacity which limits efficient model execution to only the largest computer systems.

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## EXECUTIVE SUMMARY

1. Background: To determine the supply requirements necessary to attain the stringent readiness levels imposed on the AEGIS Weapon System, a model referred to as SPRSAL (Spares Allocation) was proposed by RCA (Radio Corporation of America), prime contractor for the AEGIS Weapon System. An evaluation of the proposed model, from a purely theoretical standpoint, was accomplished by a private contractor. The contractor's findings showed the model to be a conceptually valid approach to determining shipboard allowances. However, certain modifications to the model were recommended. FMSO (Navy Fleet Material Support Office) efforts in evaluating the proposed model were of a more quantitative nature. Previous FMSO findings indicated the potential of both SPRSAL and a conceptually similar alternative based on a Black & Proschan approach for significant improvements in performance over the current FLSIP (Fleet Logistics Support Improvement Program) Model. This study provides more detailed comparisons of the SPRSAL Model and alternative models.
2. Objectives: The objectives of this study are (1) to perform a detailed comparison of the SPRSAL and five alternative models, (2) to determine the sensitivity of two important SPRSAL data elements, (3) to determine the theoretical differences between SPRSAL and the Black & Proschan Model, and (4) to examine the ADP (Automatic Data Processing) requirements of SPRSAL and the Black & Proschan Model.
3. Findings: Using the SPRSAL Model and five alternative Navy models, allowances were determined for each of two systems - the Mark 86 Gunfire Control System, which is part of the AEGIS Combat System, and the Tartar Missile System. The performance of each model was measured in terms of range of items, investment,

range effectiveness, units effectiveness, and range movement. Historical usage data for the sample weapons systems as installed in existing ships were used in measuring effectiveness and range movement. The SPRSAL Model, with a 90% system protection goal, increased range and units effectiveness about 30-50 percentage points over FLSIP; however, range and dollar value were also about 3½-5 times that of FLSIP. For the same investment, the SPRSAL and Black & Proschan Models produced very similar ranges and effectiveness. When constrained to the FLSIP dollar value, SPRSAL and Black & Proschan still increased range and units effectiveness at least 20% over FLSIP, while the range of items carried was over 3½ times that of FLSIP.

The sensitivity of two SPRSAL data elements, the "K MIN" factor and the Operating Time factor, was determined. The "K MIN" factor, an indicator of item redundancy, represents the minimum number of failures of an item necessary to cause system failure. The Operating Time factor represents the percentage of the mission time during which the item is operational. Sensitivity measurements were made in terms of range and depth (investment). The study showed the SPRSAL Model to be extremely sensitive, in both range and depth, to the "K MIN" factor. Running the SPRSAL Model with a 90% system protection goal and assuming all items had a "K MIN" value of two reduced SPRSAL range over 33% and reduced SPRSAL dollar value over 75%. If the AEGIS system has a high level of redundancy and "K MIN" values are properly assigned, the SPRSAL costs could be significantly lower than indicated in the model comparisons. The SPRSAL Model was less sensitive to changes in the Operating Time factor. Reducing this factor from 100% to 50% decreased range less than 3% and decreased dollar value about 20%.



The SPRSAL and the Black & Proschan Models were examined to determine theoretical differences between the two models. The major difference identified between the two models is in the method of performance measurement, specifically with regard to repair and resupply assumptions. In measuring performance, SPRSAL assumes instantaneous repair when the spare parts are available but does not consider replenishment during the support period. The Black & Proschan Model considers the average repair time and the average delay time to get parts not available on board the ship. In addition, item redundancy and the Operating Time factor are considered in the SPRSAL Model but not in the Black & Proschan. The two models also differ with respect to the distributions used to compute item failure probabilities.

Finally, the specific ADP requirements of SPRSAL and the Black & Proschan Models were identified. The inherent size of computer core required to execute either of these marginal analysis models is of concern. The need to have a large volume of data readily available for comparative purposes will limit efficient application of either of these models to the largest hardware suites. Relatively small weapons systems, i.e., less than 5,000 repair parts, may be processed on medium size computers (e.g. IBM 360/65) but to process larger weapons systems on this size hardware will require segmentation of some sort. Techniques do exist for adapting the optimization models to smaller computers; however, the use of these techniques makes model execution less efficient.



## I. INTRODUCTION

The AEGIS Weapon System being developed by RCA (Radio Corporation of America) is designed to achieve high system readiness levels. As stipulated in the AEGIS weapon specification, the ship's storeroom stocks are to be sufficient to provide spares for 98% of all failures during the patrol without underway replenishment. To determine the supply requirements to attain these stringent readiness levels, RCA devised a model known as SPRSAL (Spares Allocation). By reference 1 of APPENDIX A, NAVSEA (Naval Sea Systems Command) requested operations analysis support for the AEGIS Project Office in the form of a technical review of the proposed requirements determination method. A plan for providing support was established by reference 2 of APPENDIX A. The initial effort, involving a theoretical analysis of the proposed procedure, was accomplished by a private contractor, MSA (Management Science Associates), of Los Altos, California. In general, MSA found the SPRSAL Model to be conceptually valid but with some error in the probability models chosen to describe system failures. Given the necessary corrections, it was felt that SPRSAL would provide an approach worthy of consideration for shipboard allowance determination. The detailed results of the MSA analysis were documented in reference 3 of APPENDIX A.

By reference 4 of APPENDIX A, NAVSUP (Naval Supply Systems Command) defined the initial FMSO (Navy Fleet Material Support Office) efforts for evaluating the proposed procedure. These efforts involved a quantitative comparison of allowances determined under the proposed procedure and under current Navy procedures. Allowances were determined for each of five systems (including two from the AEGIS Combat System) using the SPRSAL Model and several models

currently used in the Navy. Model performance comparisons were made in terms of range of items selected for stockage, the dollar value of the allowances for the selected items, and effectiveness in meeting observed shipboard usage requirements. In general, that analysis demonstrated the potential of both the SPRSAL Model and a Navy model based on a Black & Proschan approach for greater improvements in effectiveness than the other Navy models could attain. However, the improvements were achieved through greatly increased range and/or investment. The detailed findings of that analysis were documented in reference 5 of APPENDIX A.

Upon completion of the above study, NAVSUP defined more detailed FMSO efforts. FMSO tasking was provided by reference 6 of APPENDIX A. Included in this tasking were:

- . A more detailed (line item level) comparison of the SPRSAL Model and several alternative models; two models that were not considered in the initial FMSO effort were included.
- . An analysis of the sensitivity of both range and depth to two data elements required by the SPRSAL Model: (1) the "K MIN" factor, which represents the minimum number of failures of an item necessary to cause system failure; and (2) the Operating Time factor, which represents the percentage of the mission time during which the item is operational.
- . An investigation of the theoretical differences between the SPRSAL Model and the Navy Black & Proschan Model.
- . An examination of the ADP (Automatic Data Processing) requirements of the SPRSAL and the Black & Proschan Models

The remainder of this report is devoted to detailed descriptions of the

approaches and findings for each of the aforementioned tasks. As this study was actually four individual tasks, discussions of the approaches and findings for each task will be presented separately below. Section II addresses the model comparisons, Section III the SPRSAL "K MIN" and Operating Time sensitivity, Section IV the theoretical differences between the SPRSAL and the Black & Proschan Models, and Section V the examination of the ADP requirements of the SPRSAL and the Black & Proschan Models.

## II. MODEL COMPARISONS

A. APPROACH. Six models were considered in the analysis: the SPRSAL Model, the Black & Proschan Model, the TRIDENT Model, the FLSIP (Fleet Logistics Support Improvement Program) Model, a cost sensitive FLSIP Model, and the FBM (Fleet Ballistic Missile) Weapon System Allowance Model. These models are described in APPENDIX B. The Black & Proschan Model considered in this study is in reality the original Black and Proschan method (reference 7 of APPENDIX A) but modified for Navy application by NAVSECMECHDIV (Naval Ship Engineering Center, Mechanicsburg Division). The modification is described in APPENDIX C for convenience of the reader. The key feature of the SPRSAL and the Black & Proschan Models is their use of system optimization techniques to obtain either the best overall system performance for a given investment or a given performance level for the least investment. In contrast, the other four models consider each item in a system independently with no attempt to optimize system performance or cost.

In this analysis, the SPRSAL Model was run with a system protection goal of 90% and with a cost goal equal to the FLSIP investment. The Black & Proschan Model was run with two cost goals, one equal to the investment of the 90% system

protection SPRSAL and one equal to the FLSIP investment. Both the TRIDENT Model and the FBM Model, which provide variable protection by item based on the FBM MEC (Military Essentiality Code) and unit price, were run twice - once under the assumption that all items have a MEC of 95 and once while assuming all items have a MEC of 104. Actual FBM MEC assignments were not available for the systems used to evaluate these models.

To use the SPRSAL Model as designed, the following assumptions were necessary. First, the "K MIN" factor, which represents the minimum number of failures of an item necessary to cause system failure, was assumed to be one for each candidate item. Second, it was assumed that each candidate item would operate continuously during a 90 day mission. Third, it was assumed that the failure rate required by the model could be estimated by translating the annual usage rate (Best Replacement Factor) for each candidate item into an hourly rate. All SPRSAL Model runs used in this analysis were made by RCA at Moorestown, New Jersey, using allowance candidate files provided by FMSO.

Two systems were used in performing the model comparison analysis - the Mark 86 Gunfire Control System on CGN 36 (USS CALIFORNIA) and the Tartar Missile System on DDG 23 (USS RICHARD E. BYRD). Both systems were used in the initial FMSO efforts described in reference 5 of APPENDIX A. The Mark 86 was selected for the analysis because it is planned to be part of the AEGIS Combat System. The Tartar System was selected to determine the effect of the SPRSAL Model on a larger system. Allowance candidates for each of these systems were obtained from the SPCC (Navy Ships Parts Control Center) Weapons System File based on the item maintenance code and the organizational maintenance level of the ship in which the system was installed. For the Mark 86



there were 2,534 candidate items; for the Tartar there were 12,309.

The effectiveness measurements made in this analysis were obtained by comparing the allowances determined by the various models with observed shipboard usage data obtained from the 3M (Navy Maintenance and Material Management) System. Ten quarters of usage data were obtained for each weapon system. The total number of items and the number of candidate items which experienced usage during that period are shown below. Only the demands for candidate items were considered in the performance measurements made in this study. The remaining items were not considered since the items were not candidates for stockage.

SYSTEM	TOTAL NR ITEMS DEMANDED IN 10 QTRS	NR CANDIDATE ITEMS DEMANDED IN 10 QTRS
Mark 86	98	74
Tartar	572	448

The performance of each model was measured in terms of range, dollar value, range effectiveness, units effectiveness, and range movement. Range is the number of allowance candidate items selected for stockage. The dollar value is the total cost of the allowances determined for the selected items. Range effectiveness, the number of candidate items demanded and selected for stockage divided by the total number of candidate items demanded, was computed to measure range selection capabilities of each model. Units effectiveness, the number of units of candidate items satisfied divided by the number of units of candidate items demanded, was computed as a measure of depth determination performance for each model. Both the range effectiveness and the units effectiveness were computed quarterly for each system. These quarterly values were then averaged for the purpose of model performance comparisons.

In addition, an overall range effectiveness was computed to measure the range support of each model over time. This value was determined by dividing the total number of stocked candidate items demanded over the 10 quarter period by the total number of candidate items demanded over the same time period. Finally, range movement was computed as the ratio of the number of stocked candidate items that were demanded during the 10 quarter period to the number of items in the range. This value indicates the percent of the range which experienced some usage (movement) over the 10 quarter time period covered by the usage data obtained for this analysis.

To provide insight into the characteristics of the items that were stocked by each of the models, frequency distributions of the number of items stocked within various intervals of annual demand and unit price were prepared. Finally, to provide more detailed item comparisons of the models, listings of the allowance candidate items were prepared for each of the two systems showing the allowance quantity determined by each of the models considered in the analysis.

#### B. FINDINGS.

1. Range, Dollar Value, and Effectiveness Comparisons. The model comparisons discussed below are based on six statistics - range, dollar value, overall range effectiveness, average quarterly range effectiveness, average quarterly units effectiveness, and range movement. As stated earlier, the effectiveness statistics presented herein reflect only demands for allowance candidate items.

The model comparisons for the Mark 86 Gunfire Control System are shown in TABLE I. Because of differences in the method of performance measurement in the SPRSAL and the Black & Proschan Models, a meaningful comparison of the

TABLE I  
MARK 86 GUNFIRE CONTROL SYSTEM

MODEL	RANGE	\$ VALUE	RANGE EFF (OVERALL)	RANGE EFF (AVG QTR)	UNITS EFF (AVG QTR)	RANGE MOVEMENT
B&P (SPRSAL .90 \$)	2,221	1,381K	99%	99%	87%	3%
SPRSAL (.90)	2,244	1,364K	99%	99%	86%	3%
B&P (FLSIP \$)	1,891	382K	73%	75%	66%	3%
SPRSAL (FLSIP \$)	1,858	367K	72%	71%	60%	3%
TRIDENT (MEC 104)	875	346K	55%	59%	51%	5%
FBM W.S. (MEC 104)	979	170K	51%	55%	52%	4%
FLSIP	506	367K	46%	51%	35%	7%
C.S. FLSIP	751	249K	43%	52%	35%	4%
TRIDENT (MEC 95)	674	311K	42%	45%	40%	5%
FBM W.S. (MEC 95)	305	231K	36%	43%	32%	9%

two models for the same system performance level could not be obtained. Consequently, the SPRSAL Model was first run with a system protection goal of 90% (.90). The resultant dollar value of the allowances determined by this run was then used as a cost target for the Black & Proschan Model. As shown in the first two lines of TABLE I, SPRSAL and Black & Proschan performed almost identically under these circumstances. The slight (1%) difference in dollar value is due to the fact that the last item selected by the Black & Proschan Model was a second unit of an electron tube valued at \$25,420 which caused the dollar value to exceed the target (\$1,364K). The range effectiveness and units effectiveness achieved by these two runs were the highest of any of the models considered in the analysis. However, these runs also produced the largest ranges (about 340% larger than FLSIP) and the highest costs (over 270%

higher than FLSIP). When constrained by the FLSIP dollar value (lines 3 and 4 of TABLE I), the performance of these two models fell considerably, with overall range effectiveness falling 26-27 points and units effectiveness falling 21-26 points. However, both models still performed significantly better than FLSIP (26-27 points higher overall range effectiveness and 25-31 points higher units effectiveness). Again the ranges were very large relative to FLSIP.

Of the other models considered, the TRIDENT COSAL (Coordinated Shipboard Allowance List) Model with constant MEC of 104 (line 5 of TABLE I) provided the best performance with a slightly lower cost than FLSIP. The FBM Weapon System Model with constant MEC of 104 (line 6 of TABLE I) achieved the lowest cost of all of the models considered, yet still achieved five points higher overall range effectiveness and 17 points higher units effectiveness than FLSIP. However, none of the item protection models performed as well as the system protection models.

TABLE I also indicates a range movement trend consisting of increases in range movement as the range decreases. Thus, the item protection models, which produce the smaller ranges, obtained slightly higher range movement figures. However, none of the models had over 10% range movement.

Similar model comparisons for the Tartar Missile System are shown in TABLE II. The current version of the Black & Proschan Model has a processing limitation of 2,600 allowance candidate items. Since the number of candidate items comprising the Tartar System exceeds this limit, the model could not be run on this system and, consequently, will not be included in the discussion of the findings for this system.

TABLE II shows that the SPRSAL Model with a system protection goal of 90% (.90) provided the highest range effectiveness and units effectiveness but also



produced the largest range and by far the highest cost (421% higher than FLSIP). When constrained by the cost of FLSIP (line 2 of TABLE II), the SPRSAL Model still produced a very large range, but overall range effectiveness dropped seven points and units effectiveness dropped 11 points from the .90 SPRSAL. Relative to FLSIP, the performance of the cost constrained SPRSAL was still markedly better - 26 points higher overall range effectiveness and 20 points higher units effectiveness. Again, however, the range was much larger than FLSIP.

TABLE II  
TARTAR MISSILE SYSTEM

MODEL	RANGE	\$ VALUE	RANGE EFF (OVERALL)	RANGE EFF (AVG QTR)	UNITS EFF AVG QTR)	RANGE MOVEMENT
SPRSAL (.90)	11,735	2,187K	99%	99%	72%	4%
SPRSAL (FLSIP \$)	9,821	420K	92%	94%	61%	4%
FBM W.S. (MEC 104)	6,719	488K	89%	93%	71%	6%
TRIDENT (MEC 104)	5,641	541K	84%	87%	64%	7%
C.S. FLSIP	4,836	374K	78%	83%	43%	7%
TRIDENT (MEC 95)	4,119	401K	70%	76%	55%	8%
FLSIP	2,749	420K	66%	72%	41%	11%
FBM W.S. (MEC 95)	1,905	274K	52%	62%	38%	12%

The FBM Weapon System Model with a constant MEC of 104 (line 3 of TABLE II) attained lower range effectiveness than both SPRSAL runs; however, it did attain a units effectiveness that was 10 points higher than the cost constrained SPRSAL and only one point lower than the very costly .90 SPRSAL. The range movement statistics indicate a maximum value of 12% and exhibit the same trend that was observed for the Mark 86 System.

As specified earlier, the AEGIS weapon specifications require that storeroom stocks be sufficient to provide spares for 98% of all failures during the patrol. This goal was interpreted by RCA to mean that lack of storeroom stocks should not preclude satisfactory system operation for an average 98% of the patrol. The SPRSAL Model with a 98% system protection goal was specifically designed to meet this requirement. Previous tests by RCA at the 98% level reportedly produced relatively large investment levels. Therefore, the maximum system protection level addressed in this report is 90%. System protection was not measured for the other models tested in this study; however, previous RCA tests showed that the system protection resulting from the FLSIP Model was less than 10%. Furthermore, assuming that there is some correlation between range/unit effectiveness and system protection, TABLES I and II show that FLSIP will not approach SPRSAL performance at the 90% system protection level. It is noted that the AEGIS patrol period will normally be 45 days, while all tests in this study were based on a 90 day patrol. The difference in patrol periods would change the absolute values, but relative comparisons are considered valid.

2. Item Comparisons. Unit price and expected annual demand (based on BRF (Best Replacement Factor) and total installed population) distributions for both the items comprising the allowance candidate file and the items subsequently selected for stockage by each of the models are provided in TABLE III for the Mark 86 Gunfire Control System. With the exception of the FBM Weapon System Model with constant MEC of 95, there was generally little difference in the number of items selected by any of the models when expected annual demand was greater than .25 and unit price was less than \$10,000. Furthermore, most of

TABLE III

CANDIDATE FILE AND MODEL RANGE DISTRIBUTIONS (MARK 86)

CANDIDATE FILE/ MODEL	EXPECTED ANNUAL DEMAND	UNIT PRICE				
		≤ \$10.00	\$10.01- \$100.00	\$100.01- \$1,000.00	\$1,000.01- \$10,000.00	> \$10,000.00
CANDIDATE FILE	≤ .2500	954	500	466	206	17
	.2501-1.0000	152	49	14	20	7
	1.0001-4.0000	82	9	1	3	2
	> 4.0000	44	8	0	0	0
SPRSAL (.90)	≤ .2500	827	476	361	190	14
	.2501-1.0000	144	44	14	20	7
	1.0001-4.0000	81	8	1	3	2
	> 4.0000	44	8	0	0	0
B&P* (SPRSAL .90 \$)	≤ .2500	823	476	348	187	12
	.2501-1.0000	143	44	14	20	7
	1.0001-4.0000	81	8	1	3	2
	> 4.0000	44	8	0	0	0
B&P* (FLSIP \$)	≤ .2500	820	435	207	61	0
	.2501-1.0000	143	44	14	19	1
	1.0001-4.0000	81	8	1	3	2
	> 4.0000	44	3	0	0	0
SPRSAL (FLSIP \$)	≤ .2500	823	429	183	55	0
	.2501-1.0000	144	44	14	19	0
	1.0001-4.0000	81	8	1	3	2
	> 4.0000	44	8	0	0	0
FBM W.S. (MEC 104)*	≤ .2500	439	125	25	9	0
	.2501-1.0000	152	49	14	17	0
	1.0001-4.0000	82	9	1	3	2
	> 4.0000	44	8	0	0	0
TRIDENT (MEC 104)	≤ .2500	337	99	29	23	0
	.2501-1.0000	152	49	14	19	4
	1.0001-4.0000	82	9	1	3	2
	> 4.0000	44	8	0	0	0
C.S. FLSIP	≤ .2500	272	67	20	18	0
	.2501-1.0000	152	49	12	9	3
	1.0001-4.0000	82	9	1	3	2
	> 4.0000	44	8	0	0	0
TRIDENT (MEC 95)	≤ .2500	205	60	15	18	0
	.2501-1.0000	152	49	9	13	4
	1.0001-4.0000	82	9	1	3	2
	> 4.0000	44	8	0	0	0
FLSIP	≤ .2500	46	51	15	18	0
	.2501-1.0000	144	44	14	20	7
	1.0001-4.0000	81	8	1	3	2
	> 4.0000	44	8	0	0	0
FBM W.S. (MEC 95)*	≤ .2500	0	0	0	0	0
	.2501-1.0000	102	29	9	12	4
	1.0001-4.0000	82	9	1	3	2
	> 4.0000	44	8	0	0	0

\*Override requirements not considered.

the allowance candidate items in these intervals were selected for stockage by each of the other models.

The SPRSAL (.90) Model and the Black & Proschan Model with a SPRSAL (.90) cost target also stocked most of the candidate items with a unit price greater than \$10,000. However, when SPRSAL and Black & Proschan were constrained to the FLSIP dollar value, these two models generally stocked fewer of the high cost items than the other models. This is characteristic of the optimization techniques used in SPRSAL and Black & Proschan; i.e., the money saved by not selecting high cost items is applied to the selection of more of the lower cost items with the aim of obtaining the best overall system performance for the investment.

The major differences between the number of items selected by the system protection models (SPRSAL and Black & Proschan) and the item protection models occurred in the .25 and under demand category. As shown in TABLE III, the SPRSAL and the Black & Proschan Models selected higher percentages of these items. TABLE III also shows that a very small percentage of the allowance candidate items having an expected annual demand of less than .25 were selected by FLSIP and none by the FBM Weapon System Model with a MEC of 95. This is attributable to the design feature of these models that precludes stockage of an item having an expected annual demand of less than .25 unless an override or planned maintenance requirement exists for that item. This study did not consider such override requirements in the FBM Weapon System Model or the Black & Proschan Model. Overall, the SPRSAL and the Black & Proschan Models selected very similar percentages of the allowance candidate items when run with the same cost constraint.



Similar distributions of both candidate file items and those items subsequently selected for stockage for the Tartar Missile System by each of the models are presented in TABLE IV. With the exception of the FBM Weapon System Model with an FBM MEC of 95, most models stocked nearly all the candidate items with expected annual demands greater than .25 and unit prices less than \$1,000. Like the Mark 86 System, the major differences between the number of items selected by the SPRSAL Model and the other models occurred in the .25 and under demand category. The SPRSAL Model, particularly the .90 version, selected a very high percentage of these items, including most of those in the \$1,000-\$10,000 category; it was also the only model that selected any of the items over \$10,000 in the  $\leq .25$  category. When constrained by the cost of FLSIP, the percentage of low demand items selected by SPRSAL decreased steadily as price increased. However, the number of low demand items selected in every price interval was at least as large as the number selected by any of the other models.

To allow further comparison of the various models at the individual item level, listings of the allowance candidate items for each of the two systems along with the allowance quantity determined by each of the models were provided to the AEGIS Project Office. In addition to the NIIN (National Item Identification Number) and the various allowance quantities, the listings provided such information as the item's nomenclature, unit price, BRF, expected annual demand based on BRF and total installed population, allowance override quantity, and an "experienced demand" indicator. This indicator shows whether the item experienced any usage during the 10 quarter time period covered by the 3M data obtained for this study. The listing for the Mark 86 Gunfire Control System is provided as APPENDIX D. The listing for the Tartar Missile System is not included due

TABLE IV  
CANDIDATE FILE AND MODEL RANGE DISTRIBUTIONS (TARTAR)

CANDIDATE FILE/ MODEL	EXPECTED ANNUAL DEMAND	UNIT PRICE				
		≤ \$10.00	\$10.01- \$100.00	\$100.01- \$1,000.00	\$1,000.01- \$10,000.00	> \$10,000.00
CANDIDATE FILE	≤ .2500	5,928	2,315	1,208	307	32
	.2501-1.0000	1,031	319	209	42	0
	1.0001-4.0000	470	92	55	12	1
	> 4.0000	254	22	8	4	0
SPRSAL (.90)	≤ .2500	5,667	2,201	1,124	275	11
	.2501-1.0000	1,002	309	209	42	0
	1.0001-4.0000	456	90	55	12	1
	> 4.0000	247	22	8	4	0
SPRSAL (FLSIP \$)	≤ .2500	5,462	1,609	294	35	0
	.2501-1.0000	1,002	309	206	12	0
	1.0001-4.0000	456	90	55	10	0
	> 4.0000	247	22	8	4	0
FBM W.S. (MEC 104)*	≤ .2500	3,116	848	233	8	0
	.2501-1.0000	1,031	318	209	37	0
	1.0001-4.0000	470	92	55	12	1
	> 4.0000	254	22	8	4	0
TRIDENT (MEC 104)	≤ .2500	2,363	547	179	36	0
	.2501-1.0000	1,031	319	209	39	0
	1.0001-4.0000	470	92	55	12	1
	> 4.0000	254	22	8	4	0
C.S. FLSIP	≤ .2500	1,977	231	126	35	0
	.2501-1.0000	1,031	319	175	24	0
	1.0001-4.0000	470	92	55	12	1
	> 4.0000	254	22	8	4	0
TRIDENT (MEC 95)	≤ .2500	1,464	145	61	35	0
	.2501-1.0000	1,031	314	121	30	0
	1.0001-4.0000	470	92	55	12	1
	> 4.0000	254	22	8	4	0
FLSIP	≤ .2500	126	62	62	35	0
	.2501-1.0000	1,002	309	209	42	0
	1.0001-4.0000	456	90	55	12	1
	> 4.0000	254	22	8	4	0
FBM W.S. (MEC 95)*	≤ .2500	0	0	0	0	0
	.2501-1.0000	656	195	111	25	0
	1.0001-4.0000	470	92	55	12	1
	> 4.0000	254	22	8	4	0

\*Override requirements not considered.

to volume (over 12,000 items).

### III. SPRSAL "K MIN" AND OPERATING TIME SENSITIVITY

A. APPROACH. The "K MIN" and the Operating Time factors are considered in computing the SPRSAL system performance measure. "K MIN" is defined as the minimum number of item failures necessary to cause the entire system to fail and, therefore, reflects the degree of built-in redundancy in an equipment. The Operating Time equals the percent of the mission period during which the item is operational and, thus, provides consideration of the fact that all systems are not continuously operational during a deployment. These data elements are not considered in any model other than SPRSAL.

To determine the sensitivity of the "K MIN" and the Operating Time factors on both range and depth, several special runs of the SPRSAL Model were made by RCA for each of the two systems considered in this analysis. In making these runs, all data elements with the exception of either the "K MIN" factor or the Operating Time factor were held constant. The "K MIN" factor, which was assumed to be one for all candidate items in the SPRSAL Model comparison runs (Chapter II), was changed to two, and then three, for all items. In a similar manner, the Operating Time factor, which was assumed to be 1.00 (100%) for all candidate items in the SPRSAL Model comparison runs, was changed to 0.75 (75%) for all candidate items in one run and then to 0.50 (50%). The effects of these changes on the range of items selected for stockage and the dollar value of the computed allowances for the selected items were measured to determine the sensitivity of each of the two data elements. Separate analyses were performed for both a system protection goal of 90% and a total cost equal to the FLSIP COSAL investment.

It is recognized that the use of the same "K MIN" factor or the same Operating Time factor for each candidate item is a condition not likely to be found in the AEGIS System. However, actual "K MIN" and Operating Time factor data were not available for the weapon systems considered in this study.

B. FINDINGS. The results of the SPRSAL "K MIN" factor sensitivity analysis are shown in TABLE V. The table shows the effect on range and dollar value of applying successive "K MIN" factors of one, two, and three to each item in the allowance candidate files of each of the two systems used in this study. As shown in the table, the SPRSAL Model is extremely sensitive to the "K MIN" factor. At the 90% system protection level, the assignment of a "K MIN" factor of two to each item resulted in a 53% reduction in range and an 88% reduction in dollar value for the Mark 86 System. For the Tartar System, range and dollar value reductions of 33% and 75%, respectively, were realized.

TABLE V  
SPRSAL "K MIN" SENSITIVITY

SYSTEM	GOAL	"K MIN"	RANGE	\$ VALUE
MARK 86	.90	1	2,244	1,364K
		2	1,051	168K
		3	317	89K
	FLSIP \$	1	1,858	367K
		2	1,051	168K
		3	317	89K
TARTAR	.90	1	11,735	2,187K
		2	7,895	538K
		3	2,794	178K
	FLSIP \$	1	9,821	420K
		2	7,096	404K
		3	2,794	178K



The assignment of a "K MIN" factor of three to each item resulted in even further reductions in range and dollar value for both systems. In effect, the item redundancy or built-in spares concept reflected in "K MIN" factors greater than one enables the SPRSAL Model to achieve a 90% system protection level at costs lower than if no item redundancy ("K MIN"=1) is considered.

When run with the FLSIP cost goal, the assignment of "K MIN" factors of two and three produced the same results for the Mark 86 Gunfire Control System as the respective 90% system protection runs. This is due to the fact that in the cost goal mode of operation, the SPRSAL Model selects spares until the cost goal (in this case \$367K) or a given level of system protection (in this case 90%) is reached. With a "K MIN" factor of two for each item, which reflects one built-in spare for each item, the model was able to achieve a 90% system protection level at a cost less than the dollar goal. With a "K MIN" factor of three for each item, the model was able to achieve 90% system protection at an even lower cost. The cost goal for the Tartar System was \$420K. With this cost goal and a "K MIN" factor of two for each item, the model was unable to achieve a 90% system protection within the cost goal. With a "K MIN" factor of three, however, the 90% system protection was achieved at a cost lower than the goal.

The results of the SPRSAL Operating Time factor sensitivity analysis are shown in TABLE VI. The table shows the effect on range and dollar value of applying successive Operating Time factors of 100%, 75%, and 50% to each allowance candidate file item in the two systems used in this study. With respect to the range of items selected, the table indicates that the SPRSAL Model is only slightly sensitive to the Operating Time factor. At the 90%

system protection level, both systems experienced slight reductions in range as the Operating Time factor was reduced to 75% and 50%. When run with the FLSIP cost goal, successive small increases in range were noted. In terms of the dollar value invested, the application of an Operating Time factor of 75% to each item resulted in an 8%-10% reduction for the 90% system protection model. The application of a 50% Operating Time factor resulted in a 19%-20% reduction. When run with the FLSIP cost goal, dollar value was not affected.

It is noted that the Operating Time factor should be used only if failure rates, vice BRFs, are used to forecast demand. Operating Time considerations are inherent in the BRF since the BRF represents the annual usage for an item during whatever portion of the year it was operational.

TABLE VI  
SPRSAL OPERATING TIME SENSITIVITY

SYSTEM	GOAL	OPERATING TIME	RANGE	\$ VALUE
MARK 86	.90	100%	2,244	1,364K
		75%	2,215	1,257K
		50%	2,177	1,104K
	FLSIP \$	100%	1,858	367K
		75%	1,861	367K
		50%	1,864	367K
TARTAR	.90	100%	11,735	2,187K
		75%	11,696	1,966K
		50%	11,650	1,740K
	FLSIP \$	100%	9,821	420K
		75%	9,860	420K
		50%	9,896	420K

#### IV. THEORETICAL DIFFERENCES BETWEEN SPRSAL AND BLACK & PROSCHAN MODELS

A. APPROACH. Initial FMSO efforts in comparing the SPRSAL and the Navy Black & Proschan Models revealed significant differences in dollar value and effectiveness obtained when each model was run with a system performance goal of 90%. These performance differences pointed to the need for closer examination of the theory of the two models. Through review of available documentation on the models and discussions with persons knowledgeable in the theory behind the models, the basic theoretical differences were determined. Specific theoretical aspects which were examined in this analysis were the model performance objectives, assumptions with respect to repair and resupply, considerations of item redundancy and operating time, and the probability distributions used in the models.

B. FINDINGS. The major theoretical difference between the SPRSAL Model and the Navy Black & Proschan Model is the model performance objective. The performance objective of the SPRSAL Model is to provide sufficient stock to ensure that lack of spares will not preclude satisfactory system operation for an average specified percent of the mission duration without underway replenishment. On the other hand, the performance objective of the Black & Proschan Model is that the ship's storeroom carry sufficient stock to achieve a desired level of operational availability considering underway replenishment. As used in the Black & Proschan Model, the operational availability is the ratio of the time the system is operational to the total mission time.

Due to the item redundancy feature of the AEGIS System, a given item failure may not lead to system failure. Thus, the primary concern of the SPRSAL Model is to select for stockage those items whose failures would immediately

cause system failure. Item redundancy is not considered in the Black & Proschan Model. Hence, this model considers any failure of a part vital to system operation as a total system failure.

Assuming instantaneous repair if a spare part is available, the SPRSAL Model selects those items that will provide satisfactory system operation for an average specified percent of the mission duration. It is recognized that repair actions are not performed instantaneously, and therefore, the system will operate less than the specified average percent. However, the additional nonoperational time is not caused by a lack of spare parts. The Black & Proschan Model explicitly recognizes the time required to perform repair actions in the selection of those items necessary to achieve the desired operational availability goal.

Another area of difference between the SPRSAL and the Black & Proschan Models is the consideration of item operating time. The SPRSAL Model is designed to recognize that a given item may not be operational 100% of the time during the mission. Accordingly, SPRSAL provides the capability to specify that percent of the mission during which the item is operational. This percent, or Operating Time factor, is applied to the failure rate of the item, and this new rate is used in the requirements determination process. This capability is not provided by the Black & Proschan Model which considers each item operational for the entire mission.

Finally, the two models differ with respect to the distributions used in computing item failure probabilities. During the marginal analysis process, the SPRSAL Model uses three different distributions depending on the item's installed population, expected demand, and the number of spares already stocked.



These distributions include the state model, the Poisson, and a Normal approximation to the Poisson. The Black & Proschan Model uses the Poisson distribution exclusively.

A more detailed discussion of the Black & Proschan Model, including the basic mathematical formulation, is provided in APPENDIX C. The SPRSAL Model is described in detail in reference 3 of APPENDIX A.

#### V. ADP REQUIREMENTS OF SPRSAL AND BLACK & PROSCHAN MODELS

A. APPROACH. The system optimization approaches used by the SPRSAL and the Black & Proschan Models result in ADP capabilities becoming a potential limiting factor in the use of these models. Based on information provided by RCA for the SPRSAL Model and NAVSECMECHDIV for the Black & Proschan Model, the specific ADP requirements of each model were determined. Factors included in this analysis are the hardware facilities used in running the models, the basic size of the programs involved, the amount of core required for storing item input data, and the processing times needed to execute the models. This analysis is limited to the SPRSAL and Black & Proschan Models. The other models considered in this study process each item in a system independently of the others and, thus, are not limited by ADP capabilities.

In recognition of the fact that an insufficient ADP capability could limit the use of both the SPRSAL and Black & Proschan Models, two techniques for overcoming these limitations without sacrificing system optimization capabilities are presented.

B. FINDINGS. All SPRSAL runs used in this analysis were made by RCA at Moorestown, New Jersey, on an IBM 370/168 processor with four megabytes of available core storage. According to information provided by RCA, the basic

SPRSAL program requires approximately 50K bytes of core storage. In addition, approximately 90 bytes of core storage are required to store the input data for each allowance candidate item. Therefore, to process the number of candidate items considered for stockage for the Mark 86 System, i.e., 2,400, 266K bytes of core storage would be required, i.e.,  $2,400 \times 90$  to place all items in core storage plus 50K for the program itself. The time to process these 2,400 items was about 86 CPU (Central Processing Unit) seconds. To process a system the size of the Tartar (12,000 items), 1,130K bytes of core storage would be required. The time to process a system of this size would be 1,237 CPU seconds on the 370/168.

The Black & Proschan Model was run on an IBM 360/65. The basic program requires approximately 35K bytes of core storage. To store the input data for each allowance candidate item, 32 bytes of core storage are required. Thus, approximately 112K bytes of core storage were required to process the 2,400 Mark 86 items considered for stockage. The time to process these 2,400 items was 335 CPU seconds. As discussed earlier, the processing limitation (2,600 items) of the current version of the model precluded processing the Tartar System. Were it not for this limitation, this system could have been run; however, 419K bytes of core storage would have been required.

The need and benefit to compute allowances using optimizing techniques has been shown in this study. The computer required for executing the optimization model must have unusually large core storage to efficiently process the data. This test indicates the mid-range of computers are inadequate for most efficient operation. Small systems (2,000 items or less for SPRSAL and 5,000

items or less for Black & Proschan) can be run on computers such as the IBM 360/65, but to process larger weapons systems, some form of segmentation must be used.

Certain techniques exist to overcome the ADP limitations on use of these models while still maintaining the basic system optimization features. One such technique uses an external sort (from high to low value) of the change in performance-to-cost ratio associated with the addition of the first unit of each candidate item. Having sorted the candidate items in this manner, the maximum possible number of items having the highest ratios are then brought into core. In addition, the ratio value of the first item not brought into core is retained. The basic marginal analysis sparing process is then performed on those items in core until the performance-to-cost ratio of the next selected item falls below that of the retained item. The items in core and the remaining items are then resorted, the maximum possible number brought back into core, and the sparing process is continued. This entire process is continued until a specified performance or cost goal is achieved.

Another technique often used in inventory optimization problems is the method of LaGrange multipliers. Although there was no attempt in this study to determine the potential of this method for use with the AEGIS System, it should be noted that this method has been used successfully in several Navy applications. One such application is in the model used by the Navy ASO (Aviation Supply Office) to determine initial outfitting requirements.

One drawback to the use of techniques such as those discussed above is their requirement for long computer execution times relative to the currently programmed techniques.

## VI. SUMMARY

This study has evaluated the RCA SPRSAL Model in terms of its performance relative to five alternative models, the sensitivity of two of its required data elements, the theoretical differences between it and a conceptually similar alternative model, and the model's ADP requirements. Summary statements with regard to each of these areas are provided below.

A. SPRSAL PERFORMANCE. This study shows the potential of system protection models like SPRSAL and the conceptually similar Black & Proschan Model for significant improvement (about 30-50 percentage points) in range and units effectiveness over item protection models like the TRIDENT and FLSIP Models. The improvement in performance was most pronounced when these models were run with high (90%) system protection levels. However, this performance differential was achieved only through range and investment levels about  $3\frac{1}{2}$ -5 times that of FLSIP. Even for an investment equal to FLSIP, the two system protection models performed 20-26 percentage points better than FLSIP, although computed ranges were found to be over  $3\frac{1}{2}$  times larger than the FLSIP range. At the investment level required to provide 90% SPRSAL system protection, the SPRSAL and the Black & Proschan Models performed almost identically. When constrained by the FLSIP investment, the Black & Proschan Model performed slightly better than SPRSAL. The FLSIP Model is considered inadequate to meet the high AEGIS readiness requirements.

The large ranges associated with the SPRSAL and Black & Proschan Models are due primarily to their propensity for selecting high percentages of low cost, low demand items. In general, all of the models considered in this study selected high percentages of those items having expected demands greater than .25



unit per year. The large differences in range between the system protection models (SPRSAL and Black & Proschan) and the others occurred mainly in the .25 unit and under demand category. At high system protection levels, the SPRSAL and Black & Proschan Models even selected high percentages of the more expensive low demand items.

B. SPRSAL SENSITIVITY ANALYSIS. With respect to the sensitivity of the "K MIN" factor, the findings show the SPRSAL Model to be extremely sensitive to this data element. At the 90% system protection level, range decreases of over 33% and dollar value decreases of over 75% were observed through application of "K MIN" factors greater than one. When constrained by the FLSIP investment, the application of "K MIN" factors greater than one enabled the SPRSAL Model to achieve a 90% system protection level at a cost considerably less than the goal. Therefore, if the SPRSAL Model is approved for AEGIS implementation, the assignment of "K MIN" factors should be closely monitored.

The SPRSAL Model is less sensitive to the Operating Time factor. The application of a 50% Operating Time factor resulted in changes to range of less than 3%. In terms of dollar value, reductions of approximately 10% were observed for a 75% Operating Time factor and reductions of approximately 20% were observed for a 50% factor when SPRSAL was run at the 90% system protection level. When constrained by the FLSIP investment, SPRSAL dollar value was not affected by changes to the Operating Time factor.

No other model tested had the ability to consider item redundancy and Operating Time factors.

C. THEORETICAL DIFFERENCES BETWEEN SPRSAL AND BLACK & PROSCHAN. The major theoretical difference between the SPRSAL and the Black & Proschan Model is the model performance objective. The objective of the SPRSAL Model is to provide

sufficient stock to ensure that lack of spares will not preclude satisfactory system operation for an average specified percent of the mission duration without underway replenishment. Recognizing item redundancy by means of the "K MIN" factor and assuming instantaneous repair when a spare is available, the primary concern of SPRSAL becomes the selection of those items whose failures would immediately cause system failure. The objective of the Black & Proschan Model is to carry sufficient stock to replace failed items so that a desired level of operational availability is obtained. In determining the operational availability, both the mean time to repair of the system and the average delay time awaiting parts are considered. Unlike the SPRSAL Model, neither item redundancy nor operating time is considered. Finally, the SPRSAL Model uses three distributions - including the Poisson - to compute item failure probabilities, whereas the Black & Proschan Model uses only the Poisson.

D. SPRSAL/BLACK & PROSCHAN ADP REQUIREMENTS. The ADP requirements of the SPRSAL and the Black & Proschan Models continue to be a major concern due to the processing capacity required to execute either model. The large amount of core storage necessary for either model makes it necessary that a computer with large core capacity be made available for efficient computation of most cost-effective allowances. However, there are two techniques, one making use of an external sort procedure and the other using the LaGrange multiplier method, that could conceivably be applied to adapt these models for use on larger weapon systems. The LaGrange multiplier method has been used successfully in several Navy applications. Both techniques require long computer execution times, but no attempt was made to evaluate either during this study.

## VII. CONCLUSION

The SPRSAL Model output is compatible with current Navy allowance programs and procedures. However, two required input data elements, "K MIN" and the Operating Time factor, are not currently available from UICP (Uniform Inventory Control Program) files. The FLSIP Model will not provide the level of support required to attain the readiness goals specified for the AEGIS Weapon System. The SPRSAL Model was designed by RCA to meet the AEGIS requirements and produces results very similar to the Black & Proschan Model used by NAVSECMECHDIV when the same cost constraint is applied. Both models provide significantly higher effectiveness than FLSIP but also stock a much larger range of items. At the 90% system protection level, SPRSAL range and investment dollar value were 3 $\frac{1}{2}$ -5 times that of FLSIP. The SPRSAL Model is very sensitive to the "K MIN" factor, which reflects item redundancy. If the AEGIS System has a high degree of designed redundancy that can accurately be reflected through "K MIN" assignments, the SPRSAL range and cost could be reduced below those of the FLSIP Model without loss of the 90% system protection. The SPRSAL Model contains unique features that permit major supply support improvements, but efficient execution of the model requires core capacity contained only in large scale computers. The contractor executes on the IBM 370/168.

APPENDIX A: REFERENCES

1. NAVSEA ltr PMS-403-05/6057:TWT of 19 Feb 1976
2. NAVSUP ltr 0411/JWP of 7 Jun 1976
3. MSA (Management Science Associates) Report 316-2, "Analysis of the SPRSAL (Spares Allocation) Model for the AEGIS Weapon System" dated December 1976
4. NAVSUP ltr of 7 Jun 1977
5. ALRAND Working Memorandum 322, "AEGIS Supply Requirements Determination Methods" of 16 May 1978
6. NAVSUP ltr 04A5/RWT of 11 Apr 1978
7. Black, G. and Proschan, F., "On Optimal Redundancy", Journal of Operations Research, Vol. 7, 1959, pp 581-588



## APPENDIX B: MODEL DESCRIPTIONS

The six models include the SPRSAL Model, the Black & Proschan Model, the FLSIP Model, the cost sensitive FLSIP Model, the TRIDENT Model, and the FBM Weapon System Model. A 90 day support period was used in all models, and only ship installable items were considered as allowance candidates. A 90 day demand forecast ( $\mu$ ) was computed for each candidate item as follows:

$$\mu = \frac{\text{BRF} \times \text{POP}}{4}$$

where BRF is the expected annual usage per unit of installed population (based on historical fleetwide usage data) and POP is the total installed population across all applications of the item.

1. SPRSAL Model. The SPRSAL Model was devised by RCA to determine supply requirements to attain the stringent readiness levels stipulated for the AEGIS Weapon System. The model uses a marginal analysis approach to obtain the best overall system protection for a given investment or to obtain a given system protection level at the least cost. The spares determination process is an iterative procedure that results in the addition of the unit of stock that will provide the largest increase in system protection per unit cost during each iteration. At each step of this process, system protection or total cost measurements are updated and compared to the system protection or cost target. This process repeats itself until the system protection or cost goal is reached. The number of units of each item stocked during this process becomes the allowance for that item. In the probability calculations performed during this process, both item redundancy and item operating time are considered. Item redundancy is considered through the use of "K MIN", a factor that specifies

the minimum number of failures of an item necessary to cause system failure. Consideration is given to item operating time by means of an Operating Time factor that specifies the percentage of the mission time during which the item is operational. Any item not considered vital to the operation of the system is excluded from consideration by the model. PMRs (Planned Maintenance Requirements) and TORs (Technical Overrides) are considered as minimum quantity overrides. More detailed mathematical formulation is provided in reference 3 of APPENDIX A.

2. Black & Proschan Model. The Black & Proschan Model is used by NAVSECMECHDIV to determine supply requirements for certain special projects. The Black & Proschan Model uses a marginal analysis approach to obtain the best operational availability for a given investment or to obtain a given operational availability for the least investment. As used in this model, the operational availability is a measure of the expected percent of the mission time during which the system is operational. The spares selection process is very similar to that of the SPRSAL Model. That is, the process successively adds one unit of stock of that item that provides the greatest increase in operational availability per unit cost. Operational availability or total cost measures are updated at each step of this process. The process continues in this manner until an operational availability or cost goal is reached. The quantity of stock accumulated for each item at this point becomes the allowance for that item. Unlike the SPRSAL Model, no consideration is given to either item redundancy or item operating time during the probability calculations performed during this process. Items not considered vital to the operation of the system are excluded from consideration, and PMRs and TORs are not recognized in this model. More

mathematical formulation is provided in APPENDIX C.

3. FLSIP Model. The FLSIP Model is currently used to determine allowance quantities for all non-FBM ships. Based on the 90 day demand forecast, each candidate item is categorized as either demand-based or insurance. If the 90 day demand forecast is one or more units, the item is classified as demand-based. A demand-based item is stocked in sufficient depth to provide 90% protection against stockout under the assumption that demand is Poisson distributed. If the 90 day demand forecast is less than one unit, the item is classified as insurance. As an insurance item, the item is selected for stockage only if (1) its component to mission MEC is vital, (2) its part to component MEC is vital, and (3) its 90 day demand forecast is at least .0625 unit (.25 unit per year). The depth for an item meeting these criteria is the maximum of the item's MRU (Minimum Replacement Unit), PMR, or TOR. Any item failing to meet the above criteria for stockage will still be stocked if there is a PMR or TOR for that item.

4. Cost Sensitive FLSIP Model. The cost sensitive FLSIP Model is a modification of the basic FLSIP Model. As in the FLSIP Model, each candidate item is categorized as demand-based or insurance based on its 90 day demand forecast. The range and depth criteria for demand-based items are the same as FLSIP, i.e., a 90 day demand forecast of one or more units to qualify for stockage and depth sufficient to provide 90% protection against stockout based on the Poisson distribution. If an item does not qualify as demand-based, it is classified as insurance. Like the FLSIP Model, an insurance item must have a component to mission and a part to component MEC of vital to even be considered for stockage. If the item meets these MEC criteria, the decision of whether the

item is selected for stockage is made on the basis of its unit price (P) and 90 day demand forecast ( $\mu$ ) using the criteria shown below:

If  $P \geq \$10$ , stock if  $\mu \geq .0125$

If  $\$10 < P \leq \$500$ , stock if  $\mu \geq .0375$

If  $P > \$500$ , stock if  $\mu \geq .1250$

If the item is selected, it will be stocked in a depth equal to the maximum of its MRU, PMR, or TOR. Once again, an item failing to meet the above criteria will still be stocked if there is a PMR or TOR for the item.

5. TRIDENT Model. The TRIDENT Model is used to compute allowance quantities for TRIDENT submarines. The TRIDENT Model provides a variable protection level for each candidate item based on TRIDENT MEC and unit price. The TRIDENT MEC is an indicator of the relative essentiality of an item. Under this system an item is assigned one of seven values ranging from 95 to 116, where 116 represents the highest essentiality. The allowance quantity (AQ) is computed as follows:

$$AQ = \mu + \left[ 7 - \frac{1}{8} (116 - \text{MEC}) - \log_{10} P \right] \sqrt{\mu}$$

(for MECs from 95 to 110)

$$AQ = \mu + \left[ 7 - \frac{1}{8} (116 - \text{MEC}) - \log_{10} P \right] \sqrt{\mu} + .5$$

(for MEC 116)

where

$\mu$  = 90 day demand forecast

MEC = TRIDENT MEC

P = unit price



This allowance quantity must provide at least 90% protection against stockout. Thus, the term  $\left[ 7 - \frac{1}{6} (116 - \text{MEC}) - \log_{10} P \right]$  is constrained to be at least 1.3. The computed allowance quantity is then rounded to the nearest whole number. If this value is one or more, the item is stocked in a depth equal to the maximum of the computed quantity, the item's PMR, or the item's TOR. If the computed quantity is zero, the item is not stocked unless there is a PMR or TOR for the item.

6. FBM Weapon System Model. This model is used in determining allowance quantities for the Weapon System of FBM submarines. The model criteria are specified in SSPINST 4423.27B. With the exception of MEC 95 items, the FBM Model provides a variable protection level for each candidate item based on FBM MEC and unit price. Similar to the TRIDENT MEC, the FBM MEC is assigned one of seven values between 95 and 116. For MEC 95 items, a fixed protection level of 90% is provided. Thus, for MEC 95 items the allowance quantity is computed as follows:

$$AQ = \mu + 1.3 \sqrt{\mu}$$

where

$\mu$  = 90 day demand forecast

For items having MECs greater than 95, the allowance quantity is computed as follows:

$$AQ = \mu + \left[ 8.8 - \frac{1}{6} (116 - \text{MEC}) - 1.5 \log_{10} P \right] \sqrt{\mu}$$

where

$\mu$  = 90 day demand forecast

MEC = FBM MEC

P = unit price

The computed allowance quantity is rounded to the nearest whole number. If this value is one or more, the item is stocked in a depth equal to this value. If the computed allowance is zero, the item is not stocked. PMRs and TORs were not considered in this model.

In actual practice, a factor of .5 is added to the AQ formula prior to rounding to the nearest whole number. This has the effect of stocking at least one unit of any item having a MEC greater than 95. The .5 factor was excluded for purposes of this study to preclude stocking every item when a MEC of 104 was assumed for all items.

## APPENDIX C: BLACK & PROSCHAN MODEL MATHEMATICAL FORMULATION

This appendix describes the basic mathematical formulation of the Navy Black & Proschan Model. The information presented was obtained from a NAVSECMECH-DIV (6830.03) memorandum and discussions with the author. The model applies the original Black and Proschan method described in reference 7 of APPENDIX A with certain modifications for Navy application. These modifications are in the area of model performance measurement. As discussed below, performance is measured in terms of operational availability vice the probability of sufficient spares measure used in the original method. The information is provided for reader convenience and to illustrate the conceptual method of application as understood.

The Black & Proschan Model is based on the assumption that individual item life is exponentially distributed with failure rate ( $\lambda$ ). Assuming that the failure of any item vital to system operation will result in temporary system failure, the probability ( $P_i$ ) that there have not been enough failures of item  $i$  to render the system inoperable, i.e., the probability that the number of failures is less than or equal to the number of spares for item  $i$  is given by the following:

$$P_i = \sum_{a=0}^{S_i} \frac{(N_i \lambda_i)^a}{a!} e^{-N_i \lambda_i}$$

where

$S_i$  = number of spare units of item  $i$

$N_i$  = number of installed units of item  $i$

$\lambda_i$  = expected usage per installed unit of item  $i$  during mission

It then follows that the probability ( $P_A$ ) there have not been enough failures of any item to render the system inoperable is determined by the following:

$$P_A = \prod_{i=1}^j P_i$$

where

$j$  = number of items considered as spares candidates on the weapon system

The Black & Proschan Model objective is to carry sufficient storeroom stock to achieve a desired operational availability. As defined in the model, the operational availability is the ratio of the time the system is operational to the total elapsed time of the mission. Assuming the availability of all required spares and, therefore, no downtime awaiting parts, a mean time between supply requirements for the system is computed as follows:

$$MTBSR_o = \frac{1}{\sum_{i=1}^j N_i \lambda_i}$$

where

$j$  = number of items considered as spares candidates on the weapon system

$N_i$  = number of installed units of item  $i$

$\lambda_i$  = expected usage per installed unit of item  $i$  during mission

Again, if availability of all required spares is assumed, the highest possible operational availability ( $A_L$ ) becomes a function of system repair time and is computed as follows:

$$A_L = \frac{MTBSR_o}{MTBSR_o + MTTR}$$



where

MTTR = mean time to repair

An operational availability goal is then determined as a specified percent of the highest possible operational availability.

A marginal analysis process is used to determine the spares inventory required to achieve the Black & Proschan operational availability goal. At each step of this process, the increase in  $P_A$  per unit cost of an additional unit of stock is determined for each item. The inventory of the item that produces the largest increase in  $P_A$  per unit cost is incremented by one unit of stock. This process is then repeated (using the new inventory and successive new inventories) until the achieved availability is greater than or equal to the goal. The achieved availability ( $A_A$ ) is computed as follows:

$$A_A = \frac{A_L}{1 + A_L (\text{MSDT}) (\lambda_S / T)}$$

where

MSDT = mean supply down time

$\lambda_S$  = the system failure or shortage rate

T = time duration of the mission

A derivation of the achieved availability formula above is not documented.

The underlying assumption for the determination of the system failure or shortage rate ( $\lambda_S$ ) is that the time between system failures is exponentially distributed with mean  $\lambda_S$ . Thus, the number of system failures has a Poisson distribution and the probability of no system failures is:

$$e^{-\lambda_S} = P_A$$

Taking the natural logarithm of both sides of the equation:

$$-\lambda_S = \ln P_A$$

or

$$\lambda_S = -\ln P_A$$

#### APPENDIX D: ITEM LEVEL MODEL COMPARISON

This appendix provides a listing of the allowance candidate items for the Mark 86 Gunfire Control System along with the allowance quantity determined by each of the models considered in this study. The listing shows the NIIN, nomenclature, price, expected annual demand (DEMAND), BRF, AOQ (Allowance Override Quantity), and the allowance quantities computed under the various models which are identified as follows:

BL+P .90\$ - Black & Proschan Model with cost target equal to cost of 90% system protection SPRSAL

SPRS .90 - 90% system protection SPRSAL

BL+P \$\$ - Black & Proschan Model with cost target equal to cost of FLSIP

SPRS \$\$ - SPRSAL with cost target equal to cost of FLSIP

TRID 104 - TRIDENT Model with constant TRIDENT MEC of 104

.27B 104 - FBM Weapon System Model with constant FBM MEC of 104

FLSP - FLSIP

C.S. FLSP - cost sensitive FLSIP

TRID 95 - TRIDENT Model with constant TRIDENT MEC of 95

.27B 95 - FBM Weapon System Model with constant FBM MEC of 95

An experienced demand indicator (DMD) is also included in the last column. An \* in this column indicates that the item showed some 3M usage during the 10 quarter period used for evaluating the above models.

Items with a blank in the Black & Proschan quantity fields had a nonvital MEC and were not considered for stockage by either the SPRSAL or Black & Proschan Models.

DATE	Q91379	ITEM	NOMENCLATURE	PRICE	DEMAND	BRF	ADJ	BL+P .90	PAGE SPRS .90	BL+P \$	SPRS \$	TRID	.278 104	FLSP	C.S. FLSP	TRID	.278 104	FLSP	C.S. FLSP	TRID	.278 104
		LLM407029	COX TARE	7.30	.0122	.0061	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM411134	FLTR	7.30	.0077	.0077	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM411447	COIN	21.00	.0305	.0061	0	2	2	1	1	1	0	0	0	0	0	0	0	0	0
		LLM411448	COIN	44.50	.0183	.0061	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM411449	COIN	44.00	.0183	.0061	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM412640	INSULATI	1.30	.0122	.0061	0	2	2	1	1	1	0	0	0	0	0	0	0	0	0
		LLM422231	BA PACK	12.50	.0010	.0010	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		LLM4338454	GASKET	49.50	.0057	.0057	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4338520	GASKET	47.50	.0049	.0049	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4338521	GASKET	51.00	.0098	.0049	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4338529	GASKET	38.50	.0049	.0049	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4338533	GASKET	136.00	.0057	.0057	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4338594	GASKET	30.00	.0098	.0049	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4338595	GASKET	79.00	.0049	.0049	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4338640	GASKET	38.50	.0057	.0057	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4338645	GASKET	43.50	.0114	.0057	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4338684	GASKET	49.50	.0049	.0049	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4339100	TER4	.13	.2765	.0079	0	4	4	3	3	3	2	2	1	1	2	2	1	1	1
		LLM4339247	CHNAREC	22.50	.0124	.0124	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4339577	LPILDR	1.30	.0054	.0009	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4339844	RES	6.20	.0199	.0199	0	2	2	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4339896	TUBE	15.00	.3486	.1743	0	3	3	2	2	2	1	1	1	1	2	2	1	1	1
		LLM440367	COIN	23.00	.1736	.0124	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1
		LLM440384	COIN	92.00	.0099	.0099	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4461073	PANEL AS	373.00	.0049	.0049	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4462407	BUSHING	58.00	.0099	.0099	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4462419	CLIPARLE	.62	.0198	.0099	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1
		LLM4462419	CAPACITO	.74	.0398	.0199	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1
		LLM4462420	RESISTOR	6.20	.0199	.0199	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1
		LLM4462422	RESISTOR	56.00	.0199	.0199	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4462423	G-FUSE	.00	.9999	.9999	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		LLM4462429	FILTER	12.50	.0399	.0399	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1
		LLM4462431	CONNECTO	12.50	.0399	.0399	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1
		LLM4462447	CONGROUND	1.50	.0398	.0199	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1
		LLM4462427	RESISTOR	6.20	.0499	.0499	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1
		LLM4462428	RESISTOR	2.50	.0099	.0099	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4463341	RESISTOR	1.30	.0019	.0019	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1
		LLM4463343	RESISTOR	.12	.0299	.0299	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1
		LLM4463343	RESISTOR	.12	.0398	.0199	0	3	3	2	2	2	1	1	1	1	1	1	1	1	1
		LLM4463343	RESISTOR	.31	.7363	.0199	0	5	5	5	5	5	4	4	4	4	4	4	4	4	4
		LLM4463343	BA PACK	.31	.0199	.0199	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		LLM4463343	KEIR	1.20	.0039	.0039	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4463343	COIN	12.50	.0299	.0299	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1
		LLM4463343	RESISTOR	.62	.0299	.0299	0	3	3	3	3	3	2	2	2	2	2	2	2	2	2
		LLM4463343	RESISTOR	.62	.0798	.0399	0	3	3	3	3	3	2	2	2	2	2	2	2	2	2
		LLM4463343	METER, SPECIAL SCALE	.62	.0798	.0399	0	3	3	3	3	3	2	2	2	2	2	2	2	2	2
		LLM4463343	SPARK GAP	83.48	.0199	.0199	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4463343	WAVEGUIDE ASSEMBLY	224.00	.0317	.0317	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4463343	WAVEGUIDE ASSEMBLY	173.00	.0126	.0126	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4463343	CONTROL VOLTAGE REF	1170.00	.2314	.1157	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1
		LLM4463343	ISOLATOR, PAIR	784.00	.0126	.0126	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4463343	NET ORK CROSSOVER	570.00	.0948	.0237	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4463343	REPEATER	4380.00	.1525	.1525	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4463343	TRANSFORMER, POWER, 1	97.00	.0630	.0126	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1
		LLM4463343	WAVEGUIDE ASSEMBLY	68.00	.0126	.0126	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0
		LLM4463343	WAVEGUIDE ASSEMBLY	92.00	.0126	.0126	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0



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DATE	NTN	NOMENCLATURE	PRICE	DEMAND	BRF	ADQ	BL+P .90\$	SPRS .90	BL+P \$	SPRS \$	TRID	.273	FLSP	C.S. FLSP	TRIC	.278	DMC
000522301	CONTACT	CONTACT-ELECL PIN	.14	7.2600	.0121	0	12	.11	11	10	104	104	4	4	8	95	4
000522302	CONNECTOR-ELEC	CONNECTOR-ELEC	.09	1.0160	.0127	0	6	6	5	5	10	13	1	1	3	1	1
000522589	ELFCAON TUBE	ELFCAON TUBE	4.29	.0496	.0496	0	2	2	2	1	0	1	0	0	0	0	0
0005224112	RESISTOR-VARIABLE	RESISTOR-VARIABLE	484.71	.2985	.2985	0	2	2	2	1	1	1	1	1	0	0	0
000529382	FUSHOLDER	FUSHOLDER	3.64	.0438	.0219	0	2	2	2	1	0	1	0	0	0	0	0
000538954	CONNECTOR-RECEPTACL	CONNECTOR-RECEPTACL	4.52	.0054	.0027	0	1	1	1	1	0	0	0	0	0	0	0
000544363	LINK-TERM	LINK-TERM	48.47	.0199	.0199	0	1	1	1	1	0	0	0	0	0	0	0
000549039	CONTACT-ELECL SKT	CONTACT-ELECL SKT	4.03	.0061	.0061	0	1	1	1	1	0	0	0	0	0	0	0
00054938A	SECRET, PLUG-IN ELEC	SECRET, PLUG-IN ELEC	.14	4.6000	.0115	0	10	9	9	8	7	10	3	3	6	3	3
000551648	SLINE, TELESCOPING	SLINE, TELESCOPING	.68	.1891	.0031	0	3	3	3	2	1	0	0	1	1	1	0
000561548	SLINE, TELESCOPING	SLINE, TELESCOPING	66.00	.0108	.0027	0	1	1	1	1	0	0	0	0	0	0	0
000561549	RESISTOR	RESISTOR	44.00	.0004	.0001	0	1	1	1	0	0	0	0	0	0	0	0
000562644	INSULATOR-BSHG	INSULATOR-BSHG	2.57	.0360	.0180	0	2	2	2	1	0	1	0	0	0	0	0
000567811	INSERT, SCREW THREAD	INSERT, SCREW THREAD	.23	.0420	.0021	0	2	2	2	2	1	1	0	0	1	1	0
000569592	CAPACITOR	CAPACITOR	.10	.2835	.0199	0	4	4	3	3	2	2	1	1	1	1	0
000573934	SWITCH-TGL	SWITCH-TGL	4.02	.1064	.0061	1	1	1	1	1	1	0	1	1	1	1	0
000577944	PIN, STRAIGHT, HEADLE	PIN, STRAIGHT, HEADLE	.00	.0007	.0133	0	2	2	2	2	1	1	0	1	0	0	0
000581807	TERMINAL, LUG	TERMINAL, LUG	.54	.0144	.0002	0	1	1	1	1	0	0	0	0	0	0	0
000584544	CAPACITOR-RESISTOR	CAPACITOR-RESISTOR	2.46	.0252	.0126	0	2	2	2	1	0	0	0	0	0	0	0
000587777	FUSE-CART	FUSE-CART	.07	3.8940	.3245	0	10	9	9	8	7	9	1	1	6	2	1
000602424	CIRCUIT CARD ASSEMB	CIRCUIT CARD ASSEMB	8.39	2.1450	.0246	1	6	5	5	4	4	5	1	1	1	2	1
000605399	CIRCUIT CARD ASSEMB	CIRCUIT CARD ASSEMB	16.21	.0597	.0597	1	2	2	2	1	1	1	1	1	1	1	0
000605434	CONNECTOR, PLUG, ELEC	CONNECTOR, PLUG, ELEC	2.60	.0090	.0090	0	1	1	1	1	0	0	0	0	0	0	0
000606321	METER-TIME TOTL	METER-TIME TOTL	83.46	1.6805	.3361	0	4	4	4	3	2	3	1	1	1	1	0
000624019	INSULATION SLEEVING	INSULATION SLEEVING	.58	.0000	.0000	0	0	0	0	0	0	0	0	0	0	0	0
000631499	SEMICONDUCTOR DEVICE-DIO	SEMICONDUCTOR DEVICE-DIO	.17	.0504	.0126	0	3	3	2	2	1	0	0	1	0	0	0
000642379	CONNECTOR, RECEPTACL	CONNECTOR, RECEPTACL	72.00	.0198	.0399	0	1	1	1	1	0	0	0	0	0	0	0
000644761	SLEEV, WIRE WRAP	SLEEV, WIRE WRAP	5.46	.0299	.0299	0	2	2	2	1	0	0	0	0	0	0	0
000651008	FUSEHOLDER	FUSEHOLDER	8.60	.0014	.0014	0	2	2	1	1	0	0	0	0	0	0	0
000659251	SEMICONDUCTOR DEVIC	SEMICONDUCTOR DEVIC	8.20	.1908	.0021	0	3	3	3	3	0	0	0	0	0	0	0
000689139	GRONMET, RUBBER	GRONMET, RUBBER	.25	.0034	.0012	0	2	2	1	1	1	0	0	1	0	0	0
000696894	COIL, TUBE DEFLECTIO	COIL, TUBE DEFLECTIO	148.73	.0148	.0074	0	1	1	1	1	0	0	0	0	0	0	0
000701584	TRANSFORMER, POWERAS	TRANSFORMER, POWERAS	379.00	.0379	.0379	0	1	1	1	1	0	0	0	0	0	0	0
000701585	FILTER, RADIO FREQUE	FILTER, RADIO FREQUE	184.00	.0070	.0070	0	1	1	1	0	0	0	0	0	0	0	0
000709074	TERMINAL	TERMINAL	30.17	.2844	.0158	0	3	3	2	2	1	1	1	1	1	1	0
000714474	CONNECTOR-PG	CONNECTOR-PG	.01	.0297	.0099	0	3	3	2	2	1	1	0	0	0	0	0
000719964	DUMMY LOAD, ELECTRIC	DUMMY LOAD, ELECTRIC	13.50	.0151	.0151	0	1	1	1	1	0	0	0	0	0	0	0
000724957	REACTOR	REACTOR	52.25	.1572	.0393	0	2	2	2	2	1	1	0	1	0	0	0
000729934	FAIR-AX	FAIR-AX	85.60	.0064	.0032	0	1	1	1	1	0	0	0	0	0	0	0
000729935	BEATING-R AMN	BEATING-R AMN	71.69	.0079	.0079	0	1	1	1	1	0	0	0	0	0	0	0
000739184	SOLENOID, ELECTRICAL	SOLENOID, ELECTRICAL	100.58	.0769	.0769	0	2	2	2	2	1	1	0	0	0	0	0
000751514	INSERT, SCREW THREAD	INSERT, SCREW THREAD	1.77	.0756	.0189	0	2	2	2	2	1	1	0	1	0	0	0
000766474	CIRCUIT CARD ASSEMB	CIRCUIT CARD ASSEMB	43.44	.0359	.0359	0	6	6	6	5	4	5	1	1	1	1	0
000780114	CIRCUIT CARD ASSEMB	CIRCUIT CARD ASSEMB	.54	1.7850	.0238	1	2	2	2	2	1	1	1	1	1	1	0
000783204	CIRCUIT CARD ASSEMB	CIRCUIT CARD ASSEMB	17.50	.0472	.0118	1	2	2	2	2	1	1	1	1	1	1	0
000783209	CIRCUIT CARD ASSEMB	CIRCUIT CARD ASSEMB	19.50	.0720	.0190	1	2	2	2	2	1	1	1	1	1	1	0
000783214	CIRCUIT CARD ASSEMB	CIRCUIT CARD ASSEMB	13.00	.0074	.0074	1	1	1	1	1	1	1	1	1	1	1	0
000783219	CONTACT, ELECTRICAL	CONTACT, ELECTRICAL	2.50	3.5934	.0318	0	8	7	7	6	5	7	1	1	1	1	0
000784524	FILTER	FILTER	78.20	.0199	.0199	0	2	2	2	2	0	0	0	0	0	0	0
000785774	LENS-IND	LENS-IND	.14	.0168	.0021	0	2	2	2	2	0	0	0	0	0	0	0
000787624	STRAP, TIEDOWN, ELECT	STRAP, TIEDOWN, ELECT	3.40	.0001	.0001	0	1	1	1	1	0	0	0	0	0	0	0
000789319	LAMP-INCOT 28V	LAMP-INCOT 28V	1.21	1.2845	1.2845	0	5	5	5	4	3	4	1	1	1	1	0
000802019						0											



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DATE	ITEM	DESCRIPTION	PRICE	DEMAND	REF	ADQ	BL+P .90	PAGE	SPKS .90	BL+P SS	SPRS SS	TRID 104	.274 104	FLSP	C-5 FLSP	TRID 95	.278 95	DM
000602117	CONTACT, ELECTRICAL		2.08	.3184	.0398	0	3	3	3	3	3	1	2	1	1	1	0	0
000813759	CAPACITOR, ELECTRICAL		2.54	.0238	.0238	0	2	2	2	1	1	0	0	0	0	0	0	0
000822049	RICHMOND TELETYPE UNIT		1.07	.5759	.5759	0	4	4	4	4	4	2	2	1	1	1	0	0
000824744	TERMINAL LUG		.24	.1260	.0140	0	3	3	3	3	2	1	1	0	0	0	0	0
000824744	TERMINAL, FEEDTHRU, I		.07	.0030	.0006	0	2	2	2	1	1	0	0	0	0	0	0	0
000824744	TERMINAL		.50	.7316	.0236	0	4	4	4	4	4	2	2	1	1	1	1	1
000835552	CAP-CLR FLTH		.15	.6032	.0016	0	5	5	5	4	4	2	2	1	1	1	1	1
000844424	INSERT, SCREW, THREAD		.20	.6340	.0317	0	5	5	5	4	4	2	2	1	1	1	1	1
000853734	WIL, AIR FILTER		1.27	.0144	.0144	0	2	2	2	1	1	0	0	0	0	0	0	0
000872744	CONNECTOR-REPT ELEC		6.23	.2142	.0238	0	3	3	3	2	2	1	1	0	0	0	0	0
000875374	FILTER ELEMENT, AIR		33.28	.0478	.0478	0	2	2	2	1	1	0	0	0	0	0	0	0
000875047	SEMICONDUCTOR DEVICE-DIO		.11	41.4253	.0713	1	31	28	28	28	26	30	37	15	15	23	19	19
000877182	FILTER, RADIO FREQUE		17.26	.4503	.0237	0	3	3	3	3	2	1	2	0	0	1	0	0
000884000	ALIGNMENT TOOL, ELEC		7.25	.0048	.0048	0	0	0	0	0	0	0	0	0	0	0	0	0
000894130	FUSEHOLDER		2.29	.9882	.0081	0	5	5	5	4	4	3	3	0	0	0	0	0
000919572	SPRING		.04	.0064	.0064	0	2	2	2	2	2	0	0	0	0	0	0	0
000919574	GUIDE LINE		3.19	.0403	.0403	0	2	2	2	2	2	0	0	0	0	0	0	0
000919574	BUSHING		.36	.0460	.0460	0	2	2	2	2	2	1	1	0	0	0	0	0
001012270	RESISTOR, FIXED, WIRE		1.28	.0714	.0238	0	2	2	2	2	2	1	1	0	0	0	0	0
001028284	GASKET		3.18	.0299	.0299	0	2	2	2	2	2	1	1	1	1	1	1	1
001027554	RELAY, ARMATURE		6.26	.5120	.0256	0	4	3	3	3	3	1	2	1	1	1	1	1
001041394	SEMICONDUCTOR DEVICE-DIO		.46	.0468	.0156	0	2	2	2	2	2	1	1	0	0	0	0	0
001045754	RESISTOR-FXD, IMFG, 5W		.03	.0062	.0062	0	2	2	2	2	2	0	0	0	0	0	0	0
001048334	RESISTOR, FIXED, COMP		.03	.0152	.0076	0	2	2	2	2	2	0	0	0	0	0	0	0
001048344	RESISTOR-FXD, 3300HM, 0.5W		.04	.0308	.0077	0	3	3	3	2	2	1	1	0	0	0	0	0
001049022	WIRE WRAPPING TOOL		30.00	.4000	.2000	0	0	0	0	0	0	1	2	0	0	1	0	0
001055374	CONNECTOR, PLUG, ELEC		4.30	.0218	.0109	0	2	2	2	1	1	0	0	0	0	0	0	0
001063617	JACK-TIP		.22	.0081	.0081	0	2	2	2	2	2	0	0	0	0	0	0	0
001090150	JACK-TIP		.49	.1530	.0090	0	3	3	3	3	3	1	1	0	0	0	0	0
001091987	CAPACITOR		.15	.2048	.0032	0	4	4	4	4	4	1	1	0	0	0	0	0
001098101	ADHESIVE		5.72	.0299	.0299	0	2	2	2	2	2	1	1	0	0	0	0	0
001103384	RESISTOR-FXD		.03	.0186	.0062	0	2	2	2	2	2	0	0	0	0	0	0	0
001107324	CAPACITOR		35.43	.0636	.0318	0	4	4	4	4	4	2	2	1	1	1	1	1
001107620	RESISTOR-FXD		.03	.2852	.0062	1	2	2	2	2	2	2	2	1	1	1	1	1
001110424	CONSOLE INPUT-OUTPUT		17950.00	1.3249	1.3249	0	2	2	2	2	2	1	1	0	0	0	0	0
001111674	RESISTOR-FXD		.03	.0007	.0007	0	1	1	1	1	1	0	0	0	0	0	0	0
001114845	RESISTOR		.03	.0274	.0137	0	3	3	3	3	3	1	1	0	0	0	0	0
001121444	CABLE, RADIO FREQUEN		1.42	.0000	.0000	0	0	0	0	0	0	0	0	0	0	0	0	0
001135475	CAPACITOR, FIXED, ELE		1.17	.0252	.0126	0	2	2	2	2	2	0	0	0	0	0	0	0
001135494	CAPACITOR, FIXED, CER		.08	.0224	.0224	0	5	5	5	4	4	3	3	1	1	1	1	1
001135497	CAPACITOR-FXD		.58	.9132	.0012	0	9	8	8	8	7	7	7	3	3	3	3	3
001135610	CAPACITOR-FXD		1.50	5.0624	.0056	0	0	0	0	0	0	0	0	0	0	0	0	0
001139452	CAPACITOR, FIXED, CER		2.58	.0061	.0061	0	1	1	1	1	1	0	0	0	0	0	0	0
001139711	CAPACITOR, FIXED, ELE		11.56	.0028	.0007	0	1	1	1	1	1	0	0	0	0	0	0	0
001139714	CAPACITOR, FIXED, CER		4.65	.0156	.0078	0	2	2	2	2	2	0	0	0	0	0	0	0
001140130	WASHER, SHOULDERED		.05	.5389	.0317	0	5	5	5	4	4	2	2	1	1	1	1	1
001157022	ROLLER, FAST INTERFA		19.24	.0645	.0645	0	2	2	2	2	2	0	0	0	0	0	0	0
001157034	ROLLER, FAST INTERFA		.52	.0000	.0000	0	0	0	0	0	0	0	0	0	0	0	0	0
001162369	KIT, TRANSISTOR MTC		.31	.4186	.0046	0	4	4	4	4	4	2	2	1	1	1	1	1
001171711	CONTACT, ELECTRICAL		1.74	.9831	.0113	0	5	5	5	4	4	2	2	1	1	1	1	1
001198111	RESISTOR-FXD		.03	.2664	.0074	0	4	4	4	4	4	3	3	2	2	2	2	2
001204454	BEARING-B TPR .3750 ID		.81	.2840	.0234	0	4	4	4	4	4	3	3	2	2	2	2	2
001209152	RESISTOR		.03	.0112	.0056	0	2	2	2	2	2	1	1	0	0	0	0	0
001209154	RESISTOR-FXD .47X .25W		.03	.1449	.0063	0	4	4	4	4	4	3	3	2	2	2	2	2
001216831	RESISTOR, FIXED, WIRE		4.11	.0149	.0149	0	2	2	2	2	2	1	1	0	0	0	0	0



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DATE	091979	PRICE	DEMAND	BRF	ADU	BL+P \$90	PAGE SPKS	BL+P \$5	SPKS \$5	TRID 104	•273 104	FLSP	C.S. FLSP	TRID 95	•273 95	DMD
	001217937	.03	.0124	.0062	1	2	2	2	2	104	1	1	1	1	1	C
	RESISTOR,FXD CLIP		.0476	.0476	0	0	0	0	0	1	1	0	0	0	0	C
	GUIDE-TAPE	1.81	.0476	.0476	0	2	2	2	2	0	0	0	0	0	0	C
	001256150	.45	.0148	.0148	0	3	3	3	3	1	1	1	1	1	1	C
	RESISTOR,FIXED,FILM		.0335	.0335	1	3	3	3	3	2	2	1	1	1	1	C
	001257579	.03	.0067	.0067	1	1	1	1	1	1	1	0	0	0	0	C
	RESISTOR-FXD		.0023	.0023	0	1	1	1	1	1	1	0	0	0	0	C
	001266991	2.00	.0023	.0023	0	3	3	3	3	2	2	1	1	1	1	C
	STIFFENER CONTACT S		.0999	.0999	0	3	3	3	3	2	2	1	1	1	1	C
	001268706	.77	.0471	.0471	0	2	2	2	2	1	1	1	1	1	1	C
	WIRE MESH,PLATTED		.0023	.0023	0	2	2	2	2	0	0	0	0	0	0	C
	001272312	.65	.0162	.0162	0	0	0	0	0	0	0	0	0	0	0	C
	WING ASSEMBLY		.0338	.0338	0	2	2	2	2	1	1	0	0	0	0	C
	001277520	3.23	.0162	.0162	0	2	2	1	1	0	0	0	0	0	0	C
	TERMINAL,LUG		.0169	.0169	0	2	2	1	1	0	0	0	0	0	0	C
	001281761	11.34	.0141	.0141	0	1	1	1	1	0	0	0	0	0	0	C
	CAPACITOR-FAD PPR		.0164	.0164	0	1	1	0	0	0	0	0	0	0	0	C
	001312211	15.42	.0100	.0100	0	3	3	2	2	1	1	0	0	0	0	C
	SOCKET,PLUG-IN,ELEC		.0316	.0316	0	0	0	1	1	0	0	0	0	0	0	C
	001313221	510.00	.0496	.0496	0	2	2	3	3	2	2	1	1	1	1	C
	LENS AND HEAD ASSFN		.0064	.0064	0	2	2	3	3	1	1	0	0	0	0	C
	001313521	2.19	.0500	.0500	0	4	4	2	2	2	2	1	1	1	1	C
	CONNECTOR-PC ELEC		.0189	.0189	0	2	2	3	3	2	2	0	0	0	0	C
	001313571	1.01	.0001	.0001	0	1	1	1	1	0	0	0	0	0	0	C
	BIT,WRAPPING TOOL		.7642	.7642	0	5	5	4	4	4	4	1	1	1	1	C
	001344572	7.38	.1780	.1780	0	3	3	3	3	3	3	1	1	1	1	C
	HEATING ELEMENT,ELE		.0238	.0238	0	4	4	4	4	2	2	1	1	1	1	C
	001348946	.63	.0079	.0079	0	6	6	4	4	3	3	1	1	1	1	C
	RESISTOR-FXD		.1276	.1276	0	3	3	3	3	3	3	1	1	1	1	C
	001353973	.19	.0099	.0099	0	3	3	3	3	3	3	1	1	1	1	C
	RESISTOR		.1268	.1268	0	3	3	3	3	3	3	1	1	1	1	C
	001356045	3.37	.0013	.0013	0	1	1	1	1	0	0	0	0	0	0	C
	CAPACITOR		.0099	.0099	0	2	2	2	2	1	1	0	0	0	0	C
	001363646	5.53	.0099	.0099	0	2	2	2	2	0	0	0	0	0	0	C
	CAPACITOR,FIXED,CLA		.0013	.0013	0	1	1	1	1	0	0	0	0	0	0	C
	001371034	1.30	.0001	.0001	0	1	1	1	1	0	0	0	0	0	0	C
	LAMP,INCANDESCENT		.7642	.7642	0	5	5	4	4	2	2	1	1	1	1	C
	001384118	.27	.1780	.1780	0	3	3	3	3	3	3	1	1	1	1	C
	RESISTOR,FIXED,FILM		.0238	.0238	0	4	4	3	3	1	1	1	1	1	1	C
	001385950	.25	.0079	.0079	0	6	6	4	4	3	3	1	1	1	1	C
	RESISTOR-FXD		2.8756	2.8756	0	5	5	4	4	3	3	1	1	1	1	C
	001392127	1.01	.1276	.1276	0	3	3	3	3	3	3	1	1	1	1	C
	INSULATOR,BUSHING		.0918	.0918	0	3	3	3	3	3	3	1	1	1	1	C
	001396715	89.38	.0317	.0317	0	3	3	3	3	1	1	0	0	0	0	C
	CLIP		.0013	.0013	0	1	1	1	1	0	0	0	0	0	0	C
	001398766	.19	.0099	.0099	0	2	2	2	2	1	1	0	0	0	0	C
	RESISTOR,FIXED,FILM		.0013	.0013	0	1	1	1	1	0	0	0	0	0	0	C
	001409188	.05	.0099	.0099	0	2	2	2	2	1	1	0	0	0	0	C
	KEYING PLUG,POLAR		.0013	.0013	0	1	1	1	1	0	0	0	0	0	0	C
	001416944	.16	.0099	.0099	0	2	2	2	2	1	1	0	0	0	0	C
	BUSHING		.0013	.0013	0	1	1	1	1	0	0	0	0	0	0	C
	001416944	.14	.0099	.0099	0	2	2	2	2	1	1	0	0	0	0	C
	CONNECTOR,PLUG,ELEC		.0099	.0099	0	2	2	2	2	1	1	0	0	0	0	C
	001429192	10.70	.0099	.0099	0	2	2	2	2	1	1	0	0	0	0	C
	ADHESIVE		.1580	.1580	0	3	3	3	3	2	2	1	1	1	1	C
	001436704	3.15	.2226	.2226	0	3	3	3	3	2	2	1	1	1	1	C
	LIGHT INDICATOR		.0366	.0366	0	2	2	2	2	1	1	0	0	0	0	C
	001444368	3.14	.0058	.0058	0	2	2	2	2	1	1	0	0	0	0	C
	CAPACITOR,FIXED,ELE		.0058	.0058	0	2	2	2	2	1	1	0	0	0	0	C
	001457207	2.25	.0058	.0058	0	2	2	2	2	1	1	0	0	0	0	C
	LINK-TEAM		.0058	.0058	0	2	2	2	2	1	1	0	0	0	0	C
	001468175	2.48	.0058	.0058	0	2	2	2	2	1	1	0	0	0	0	C
	RESISTOR,VARIABLE,N		.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	C
	0014701292	616.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	C
	LINE,RADIO FREQUENC		.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	C
	001491293	616.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	C
	LINE,RADIO FREQUENC		.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	C
	001504025	1.61	.0714	.0714	0	2	2	2	2	1	1	0	0	0	0	C
	PIN,STRAIGHT,PIN		.7999	.7999	0	2	2	2	2	1	1	0	0	0	0	C
	001515335	12.64	.7999	.7999	0	2	2	2	2	1	1	0	0	0	0	C
	SCALE,DIAL INDICATI		.0360	.0360	0	2	2	2	2	1	1	0	0	0	0	C
	001528282	26.32	.0360	.0360	0	2	2	2	2	1	1	0	0	0	0	C
	CAPACITOR,FIXED,CER		.0158	.0158	0	2	2	2	2	1	1	0	0	0	0	C
	001534129	13.51	.0474	.0474	0	2	2	2	2	1	1	0	0	0	0	C
	CONNECTOR,RECEPTAC		.0316	.0316	0	2	2	2	2	1	1	0	0	0	0	C
	001534153	20.33	.0316	.0316	0	2	2	2	2	1	1	0	0	0	0	C
	CONNECTOR,RECEPTAC		.0905	.0905	0	4	4	4	4	3	3	1	1	1	1	C
	001534222	12.31	.0587	.0587	0	4	4	4	4	3	3	1	1	1	1	C
	CONNECTOR,PLUG,ELEC		.0157	.0157	0	2	2	2	2	1	1	0	0	0	0	C
	001534227	19.60	.0632	.0632	0	2	2	2	2	1	1	0	0	0	0	C
	ADAPTER,CONNECTOR		.0632	.0632	0	2	2	2	2	1	1	0	0	0	0	C
	001534232	24.81	.0632	.0632	0	2	2	2	2	1	1	0	0	0	0	C
	FILTER,RADIO FREQUE		.0474	.0474	0	2	2	2	2	1	1	0	0	0	0	C
	001534233	71.65	.0474	.0474	0	2	2	2	2	1	1	0	0	0	0	C
	FILTER,RADIO FREQUE		.0474	.0474	0	2	2	2	2	1	1	0	0	0	0	C
	001534234	62.06	.0474	.0474	0	2	2	2	2	1	1	0	0	0	0	C
	FILTER,RADIO FREQUE		.0474	.0474	0	2	2	2	2	1	1	0	0	0	0	C
	001534234	33.71	.0474	.0474	0	2	2	2	2	1	1	0	0	0	0	C
	FILTER,RADIO FREQUE		.0072	.0072	0	2	2	2	2	1	1	0	0	0	0	C
	001534853	.14	.0072	.0072	0	2	2	2	2	1	1	0	0	0	0	C
	RESISTOR-FXD .56K 2W		2.6719	2.6719	0	2	2	2	2	1	1	0	0	0	0	C
	001535509	.33	.0198	.0198	0	2	2	2	2	1	1	0	0	0	0	C
	LAMP,INCANDESCENT		.1146	.1146	0	3	3	3	3	2	2	1	1	1	1	C
	001539136	4.39	.0573	.0573	0	3	3	3	3	2	2	1	1	1	1	C
	FUSEHOLDER,BLOCK		.0001	.0001	0	1	1	1	1	0	0	0	0	0	0	C
	001547029	.52	.0079	.0079	0	2	2	2	2	1	1	0	0	0	0	C
	RESISTOR,FIXED,FILM		3.0765	3.0765	0	8	8	8	8	7	7	1	1	1	1	C
	001557688	.10	.0001	.0001	0	1	1	1	1	0	0	0	0	0	0	C
	TERMINAL-LUG		1.4421	1.4421	0	6	6	6	6	5	5	1	1	1	1	C
	001557834	.26	.0079	.0079	0	2	2	2	2	1	1	0	0	0	0	C
	LAMP-INCNDT		.4807	.4807	0	6	6	6	6	5	5	1	1	1	1	C
	001557857	.20	1.4421	1.4421	0	6	6	6	6	5	5	1	1	1	1	C
	LAMP-INCNDT 6V .2AMP				0	6	6	6	6	5	5	1	1	1	1	C



[illegible]





0002203091	NONVOLTCLATRF
0002203092	CIRCUIT CARD ASSEMB
0002203093	CIRCUIT CARD ASSEMB
0002203094	CIRCUIT CARD ASSEMB
0002203112	CIRCUIT CARD ASSEMB
0002203217	KADAR SET SUBASSEMB
0002203227	GENERATOR, BLANKING
0002203275	GENERATOR, LINE DRIV
0002203314	GENERATOR, FIELD OR
0002203315	AMPLIFIER SUBASSEMB
0002203319	AMPLIFIER, INTERMEDI
0002203319	AMPLIFIER, INTERMEDI
0002215114	CAPACITOR-FXD 1500UF
0002227739	CONDUCTOR, PLUG,ELEC
0002227750	METER, ELECTRIC IN
0002232610	RESISTOR-FXD
0002237964	PAPER,TELETYPEWRITE
0002238624	CIRCUIT CARD ASSEMB
0002238627	CIRCUIT CARD ASSEMB
0002238628	CIRCUIT CARD ASSEMB
0002239869	ELECTRONIC COMPONENT
0002239830	ELECTRONIC COMPONENT
0002239871	CIRCUIT CARD ASSEMB
0002242614	WPCB, SOCKET
0002253365	METER,MULTIPLE SCAL
0002257111	SWITCH-TGL
0002263255	KASHER,FLAT
0002265629	FILTER,RADIO FREQUE
0002265632	FILTER,RADIO FREQUE
0002265633	KRYCH-DE FXD 5-40X1-4
0002267539	RESISTOR, FIXED, FILM
0002269420	SWITCH,RADIO FREQUE
0002269429	MIXER,CRYSTAL,AVEO
0002270441	FILTER,BAND PASS
0002270441	FILTER,BAND PASS
0002270442	FILTER,RADIO FREQUE
0002270442	FILTER,HIGH PASS
0002270442	FILTER,HIGH PASS
0002270442	CAPACITOR, FIXED, PLA
0002270758	RESISTOR, VARIABLE
0002271070	CONNECTOR, RECEPTCL
0002271070	CONNECTOR, RECEPTCL
0002271071	CONNECTOR, RECEPTCL
0002271071	CONNECTOR, RECEPTCL
0002271095	REFLY, ARMATURE
0002271290	REGULATOR, VOLTAGE
0002271369	REGULATOR, VOLTAGE

DEMAND	PRICE	BL+P .903	PAGE SPKS .90	BL+P \$	SPKS \$	TRID 104	TRID 95	FLSP	C.S. FLSP	TRID 95	DM
.1214	.1214	0	1	1	1	0	0	0	0	0	.278
.0999	.0999	0	1	1	1	0	0	0	0	0	.95
.1445	.1445	1	1	1	1	0	0	0	0	0	
.1445	.1445	1	1	1	1	0	0	0	0	0	
.2094	.1047	1	1	1	0	0	0	0	0	0	
.1540	.1540	0	1	1	0	0	0	0	0	0	
.0619	.0619	0	1	1	0	0	0	0	0	0	
.0199	.0199	0	1	1	0	0	0	0	0	0	
.0199	.0199	0	1	1	0	0	0	0	0	0	
.0449	.0449	0	1	1	0	0	0	0	0	0	
.0368	.0368	0	1	1	0	0	0	0	0	0	
.0736	.0736	0	1	1	0	0	0	0	0	0	
.3492	.3492	0	1	1	0	0	0	0	0	0	
.0976	.0976	0	1	1	0	0	0	0	0	0	
.0214	.0214	0	2	2	1	0	0	0	0	0	
.0128	.0128	0	2	2	1	0	0	0	0	0	
.0099	.0099	0	1	1	1	0	0	0	0	0	
.3198	.3198	0	1	1	1	2	3	0	1	1	
.9999	.9999	0	5	5	3	3	3	0	1	1	
.0745	.0745	0	1	1	1	0	0	0	0	0	
.1578	.1578	0	2	2	1	0	0	0	0	0	
.0747	.0747	0	1	1	1	0	0	0	0	0	
.0397	.0397	1	1	1	0	0	0	0	0	0	
.0398	.0398	0	1	1	0	0	0	0	0	0	
.1444	.1444	0	1	1	0	0	0	0	0	0	
.0000	.0000	0	1	0	0	0	0	0	0	0	
.0199	.0199	0	1	1	0	0	0	0	0	0	
.12994	.12994	0	1	1	1	0	0	0	0	0	
.0302	.0302	0	1	0	0	0	0	0	0	0	
.1194	.1194	0	2	2	0	0	0	0	0	0	
.0694	.0694	0	2	2	0	0	0	0	0	0	
.1035	.1035	0	2	2	0	0	0	0	0	0	
.3192	.3192	0	4	4	0	0	0	0	0	0	
.0024	.0024	0	1	1	1	0	0	0	0	0	
.0789	.0789	0	1	1	1	0	0	0	0	0	
.2740	.2740	0	1	1	1	0	0	0	0	0	
.0474	.0474	0	1	1	1	0	0	0	0	0	
.0197	.0197	0	1	1	1	0	0	0	0	0	
.0237	.0237	0	1	1	1	0	0	0	0	0	
.0237	.0237	0	1	1	1	0	0	0	0	0	
.1800	.1800	0	1	1	1	0	0	0	0	0	
.1272	.1272	0	1	1	1	0	0	0	0	0	
.0098	.0098	0	1	1	1	0	0	0	0	0	
.0093	.0093	0	1	1	1	0	0	0	0	0	
.0093	.0093	0	1	1	1	0	0	0	0	0	
.0061	.0061	0	1	1	1	0	0	0	0	0	
.0122	.0122	0	1	1	1	0	0	0	0	0	
.0219	.0219	0	1	1	1	0	0	0	0	0	
.0377	.0377	0	1	1	1	0	0				

DATE	QUANTITY	DESCRIPTION	PRICE	DEMAND	GRF	ADQ	BL+P \$	PAGE SPKS \$	SPKS \$	TRID 104	TRID 104	FLSP	C.S. FLSP	TRID 95	TRID 95	DMD
00231365	1	REGULATOR, VOLTAGE	3190.00	.6588	.1398	0	2	2	1	1	1	1	1	1	1	1
00231375	1	REGULATOR, VOLTAGE	497.00	.1398	.0699	0	1	1	1	1	1	1	1	1	1	1
00231381	1	POWER SUPPLY	2790.00	.1310	.0879	0	1	1	1	1	1	1	1	1	1	1
00231392	1	POWER SUPPLY	2520.00	.0879	.0879	0	1	1	1	1	1	1	1	1	1	1
00231398	1	REGULATOR-POWER SUP	2660.00	.0879	.0879	0	1	1	1	1	1	1	1	1	1	1
00231400	1	METER	71.49	.0099	.0099	0	1	1	1	1	1	1	1	1	1	1
00231800	1	VOLTMETER	120.51	.0156	.0378	0	1	1	1	1	1	1	1	1	1	1
00231824	1	RESISTOR	108.00	.0474	.0237	0	1	1	1	1	1	1	1	1	1	1
00231828	1	RESISTOR	108.00	.0474	.0237	0	1	1	1	1	1	1	1	1	1	1
00231897	1	ATTENUATOR, VARIABLE	738.00	.0061	.0261	0	1	1	1	1	1	1	1	1	1	1
00232324	1	SWITCH, ROTARY	11.22	.0034	.0034	1	1	1	1	1	1	1	1	1	1	1
00232333	1	CONTACT, ELECTRICAL	.53	.6279	.0299	0	1	1	1	1	1	1	1	1	1	1
00232713	1	SWITCH, FLUID, LIQUID	114.00	.0180	.0060	0	1	1	1	1	1	1	1	1	1	1
00233403	1	RESISTOR-FIXED	.37	.1546	.0798	0	1	1	1	1	1	1	1	1	1	1
00233403	1	ELECTRONIC COMPONENT	2340.00	.2158	.1079	0	1	1	1	1	1	1	1	1	1	1
00233479	1	POWER SUPPLY	4680.00	.1039	.1039	0	1	1	1	1	1	1	1	1	1	1
00234303	1	AMPLIFIER, FAULT, VON	2550.00	.0595	.0119	0	1	1	1	1	1	1	1	1	1	1
00234303	1	ENCODER, NON CONTACT	3480.00	.8475	.2825	0	1	1	1	1	1	1	1	1	1	1
00234303	1	COMPENSATING CELL	3000.00	.0669	.0669	0	1	1	1	1	1	1	1	1	1	1
00234303	1	POWER SUPPLY	3480.00	.0198	.0198	0	1	1	1	1	1	1	1	1	1	1
00234303	1	POWER SUPPLY	2450.00	.0669	.0669	0	1	1	1	1	1	1	1	1	1	1
00234303	1	REGULATOR, VOLTAGE	2120.00	.1338	.0669	0	1	1	1	1	1	1	1	1	1	1
00234303	1	POWER SUPPLY	3060.00	.2005	.2005	0	1	1	1	1	1	1	1	1	1	1
00234303	1	REGULATOR, VOLTAGE	8240.00	.0119	.0119	0	1	1	1	1	1	1	1	1	1	1
00234303	1	POWER SUPPLY	1180.00	.0879	.0879	0	1	1	1	1	1	1	1	1	1	1
00234303	1	POWER SUPPLY	1310.00	.0398	.0199	0	1	1	1	1	1	1	1	1	1	1
00234303	1	POWER SUPPLY	1020.00	.0460	.0460	0	1	1	1	1	1	1	1	1	1	1
00234303	1	REGULATOR, VOLTAGE	2570.00	.0357	.0119	0	1	1	1	1	1	1	1	1	1	1
00234303	1	REGULATOR, VOLTAGE	8430.00	.2038	.1019	0	1	1	1	1	1	1	1	1	1	1
00234303	1	REGULATOR, VOLTAGE	2650.00	.6993	.0399	0	1	1	1	1	1	1	1	1	1	1
00234303	1	REGULATOR, VOLTAGE	3610.00	.0752	.0188	0	1	1	1	1	1	1	1	1	1	1
00234303	1	REGULATOR, VOLTAGE	2130.00	.0713	.0113	0	1	1	1	1	1	1	1	1	1	1
00234303	1	REGULATOR, VOLTAGE	10340.00	.0357	.0119	0	1	1	1	1	1	1	1	1	1	1
00234303	1	REGULATOR, VOLTAGE	5110.00	.1422	.0237	1	1	1	1	1	1	1	1	1	1	1
00234303	1	POWER SUPPLY	459.00	.1015	.1015	0	1	1	1	1	1	1	1	1	1	1
00234303	1	MOUNTING PAD, ELECT	.24	.0478	.0238	0	1	1	1	1	1	1	1	1	1	1
00234303	1	ADAPTER, HAVEGIDE	52.22	.0114	.0057	0	1	1	1	1	1	1	1	1	1	1
00234303	1	INSULATOR, SPRAY	.29	.1288	.0014	0	1	1	1	1	1	1	1	1	1	1
00234303	1	FILTER, RADIO, FREQUE	30.22	.0276	.0046	0	1	1	1	1	1	1	1	1	1	1
00234303	1	CAPACITOR	4.64	.3104	.0194	0	1	1	1	1	1	1	1	1	1	1
00234303	1	RECTIFIER, SEMICONDU	58.65	.3440	.1920	1	1	1	1	1	1	1	1	1	1	1
00234303	1	RESISTOR-FXC750W, 5W	.18	.0402	.0067	0	1	1	1	1	1	1	1	1	1	1
00234303	1	AMPLIFIER, HAVEGIDE	1140.00	.0077	.0077	0	1	1	1	1	1	1	1	1	1	1
00234303	1	TRANSFORMER, POWER, I	1280.00	.0308	.0199	0	1	1	1	1	1	1	1	1	1	1
00234303	1	CONTACT, ELECTRICAL	.24	.3350	.0279	0	1	1	1	1	1	1	1	1	1	1
00234303	1	SHIELDING GASKET, EL	28.46	.0299	.0299	0	1	1	1	1	1	1	1	1	1	1
00234303	1	RELAY, AUTOMATIC	.18	.1428	.0238	0	1	1	1	1	1	1	1	1	1	1
00234303	1	RESISTOR-FXC	.16	.2559	.0061	0	1	1	1	1	1	1	1	1	1	1
00234303	1	RESISTOR-FXC	.16	.7884	.0036	0	1	1	1	1	1	1	1	1	1	1
00234303	1	RESISTOR-FXC	.20	.1980	.0055	0	1	1	1	1	1	1	1	1	1	1
00234303	1	RESISTOR-FXC 3.3K, .25W	.20	.4012	.0236	0	1	1	1	1	1	1	1	1	1	1
00234303	1	RESISTOR-FXC 3.9K, .25W	.20	.1340	.0055	0	1	1	1	1	1	1	1	1	1	1
00234303	1	RESISTOR-FXC 2.7K, .5W	.20	.0186	.0052	0	1	1	1	1	1	1	1	1	1	1
00234303	1	CONNECTOR, RECEPTAC	19.26	.1106	.0158	0	1	1	1	1	1	1	1	1	1	1
00234303	1	SOCKET, PLUG-IN, ELEC	24.75	.0434	.0062	0	1	1	1	1	1	1	1	1	1	1

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DEMAND	BL+P .90\$	PAGE SPRS .40	BL+P \$S	12 SPRS \$S	TRID 104	FLSP	CUS FLSP	TRID 95	278 104	FLSP	CUS FLSP	TRID 95	278 104	FLSP	DEMAND
.0224	0	2	2	2	0	0	0	0	1	0	0	0	0	0	.0224
.0122	0	2	2	2	0	0	0	0	1	0	0	0	0	0	.0122
.0259	0	2	2	2	0	0	0	0	1	0	0	0	0	0	.0259
.1652	0	3	3	3	1	0	1	1	2	0	1	1	2	0	.1652
.0224	0	2	2	2	0	0	0	0	1	0	0	0	0	0	.0224
.0165	0	2	2	2	0	0	0	0	1	0	0	0	0	0	.0165
.0408	0	2	2	2	0	0	0	0	1	0	0	0	0	0	.0408
.0504	2	2	2	2	1	0	1	1	1	0	1	1	1	0	.0504
.0108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.0108
.0310	0	2	1	1	0	0	0	0	0	0	0	0	0	0	.0310
.0450	1	1	4	4	1	2	1	2	3	3	1	2	3	3	.0450
.3950	0	4	4	4	2	3	1	1	4	1	1	1	4	1	.3950
.4331	0	5	5	5	3	1	1	1	4	1	1	1	4	1	.4331
.9039	0	3	3	3	2	1	1	1	2	1	1	1	2	1	.9039
.0952	0	4	4	4	3	1	1	1	3	1	1	1	3	1	.0952
.2737	0	3	3	3	2	1	1	1	2	1	1	1	2	1	.2737
.0558	0	3	3	3	2	1	1	1	2	1	1	1	2	1	.0558
.4224	0	2	2	2	0	0	0	0	1	0	0	0	1	0	.4224
.0001	0	0	0	0	1	1	1	1	0	1	1	1	0	1	.0001
.0539	0	1	1	1	1	0	0	0	1	0	0	0	1	0	.0539
.0540	0	1	1	1	1	0	0	0	1	0	0	0	1	0	.0540
.4760	0	4	4	4	3	2	2	2	4	2	2	2	4	2	.4760
.3245	0	4	4	4	3	2	2	2	4	2	2	2	4	2	.3245
.0398	0	2	2	2	1	1	1	1	1	1	1	1	1	1	.0398
.0794	0	1	1	1	1	0	0	0	1	0	0	0	1	0	.0794
.0001	0	1	1	1	1	0	0	0	1	0	0	0	1	0	.0001
.2158	0	2	2	2	1	1	1	1	2	1	1	1	2	1	.2158
.0070	0	1	1	1	1	0	0	0	1	0	0	0	1	0	.0070
.0345	0	2	2	2	1	1	1	1	2	1	1	1	2	1	.0345
.0055	0	2	2	2	1	1	1	1	2	1	1	1	2	1	.0055
.0055	0	2	2	2	1	1	1	1	2	1	1	1	2	1	.0055
.0316	0	2	2	2	1	1	1	1	2	1	1	1	2	1	.0316
.0680	0	1	1	1	1	0	0	0	1	0	0	0	1	0	.0680
.0198	0	2	2	2	1	1	1	1	2	1	1	1	2	1	.0198
.0385	0	2	2	2	1	1	1	1	2	1	1	1	2	1	.0385
.0360	0	2	2	2	1	1	1	1	2	1	1	1	2	1	.0360
.0476	0	2	2	2											



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DATE	09/1979	NIIN	NAME/CLATURE	PRICE	DEMAND	DRF	40Q	BL+P 90%	PAGE SPRS 90	BL+P SPRS %	TRID 104	.27B 95	C.S. FLSP	TRID 95	.27B 95	DMD
004344987		SWITCH,AVEGUIDE	53.00	.0126	.0126	0	1	1	1	1	0	0	0	0	0	0
004344989		ISOLATOR INTERMIDIA	804.00	.0198	.0198	0	1	1	1	0	0	0	0	0	0	0
004344991		WAVEGUIDE ASSEMBLY	87.00	.0126	.0126	0	1	1	1	1	0	0	0	0	0	0
004344992		WAVEGUIDE ASSEMBLY	221.00	.0126	.0126	0	1	1	1	1	0	0	0	0	0	0
004344993		WAVEGUIDE ASSEMBLY	130.00	.0126	.0126	0	1	1	1	1	0	0	0	0	0	0
004344994		WAVEGUIDE ASSEMBLY	217.00	.0341	.1447	0	2	2	2	2	1	1	1	1	1	1
004344997		WAVEGUIDE ASSEMBLY	294.00	.0126	.0126	0	1	1	1	1	0	0	0	0	0	0
004344999		FAN,VENTILATING	760.00	.0126	.0126	0	1	1	1	0	0	0	0	0	0	0
004345001		FAN,CENTRIFUGAL	873.00	.0252	.0126	0	1	1	1	0	0	0	0	0	0	0
004345002		CIRCUIT CARD ASSEMB	1500.00	1.4070	.0661	0	3	3	3	2	1	1	1	1	1	1
004345147		RESISTOR-FXD 1.3K .25W	.18	.0061	.0074	0	3	3	3	2	1	1	1	1	1	1
004345541		RESISTOR-FXD 3K .25W	.18	.0061	.0074	0	3	3	3	2	1	1	1	1	1	1
004345629		RESISTOR	.18	.0035	.0035	0	4	4	4	3	1	1	1	1	1	1
004345701		OSCILLATOR,VARIO FR	1090.00	.0449	.0449	0	1	1	1	0	0	0	0	0	0	0
004345794		SWITCH,AVEGUIDE	1110.00	.0199	.0199	0	1	1	1	0	0	0	0	0	0	0
004345766		CAPACITOR,FIXED,PAP	13.00	.0058	.0058	0	1	1	1	1	0	0	0	0	0	0
004345952		WASHER	.56	.0161	.0161	0	2	2	2	2	1	1	1	1	1	1
004346517		CONNECTOR BODY,PLUG	7.53	1.2392	.1549	0	5	5	5	4	3	3	1	1	1	1
004345565		RELAY,SOLID STATE	171.20	.0316	.0158	0	1	1	1	1	0	0	0	0	0	0
004345262		SWITCH,ROTARY	10.51	.0298	.0298	0	2	2	2	1	0	0	0	0	0	0
0043481430		BUSHING	5.35	.0001	.0001	0	1	1	1	0	0	0	0	0	0	0
0043481431		SCREW,MACHINE	.21	.0049	.0049	0	2	2	2	1	0	0	0	0	0	0
0043481514		SCREW,MACHINE	.21	.0001	.0001	0	1	1	1	1	0	0	0	0	0	0
0043481734		INSULATOR,PLATE	.22	.0017	.0017	0	1	1	1	1	0	0	0	0	0	0
0043483624		GAGE-THKNS	40.10	1.8931	1.8931	0	2	2	2	1	0	0	1	1	1	1
0043483731		NUT,PLAIN,HEXAGON	.06	.0018	.0018	0	1	1	1	1	0	0	0	0	0	0
0043483887		TERMINAL	.04	.0010	.0010	0	1	1	1	1	0	0	0	0	0	0
0043484164		STICK,DRAGGOOD	.12	.1275	.1275	0	1	1	1	0	0	0	0	0	0	0
0043484642		SOLDER	12.50	.0039	.0039	0	1	1	1	1	0	0	0	0	0	0
0043484925		RESISTOR-FXD .3K .5W	.18	.0056	.0056	0	2	2	2	2	1	1	1	1	1	1
0043484935		RESISTOR-FXD .3K .25W														



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NI1	DESCRIPTION	PRICE	DEMAND	BRF	ADQ	BL+P \$90	PAGE SPKS \$90	BL+P \$90	SPKS \$90	TRID 104	FLSP	C.S. FLSP	TRID 95	278 95	DMD
004589267	RESISTOR-FXC	.18	.0360	.0056	0	3	3	3	2	1	1	1	1	0	0
004589612	FUSE HOLDER	5.22	.0042	.0021	0	1	1	1	1	0	0	0	0	0	0
004589635	CONTACT	.18	3.8870	.0299	0	9	8	7	7	0	0	1	0	0	0
004600981	SEMI-CONDUCTOR DEVIC	1.63	.0049	.0049	0	2	2	1	1	0	0	0	0	0	0
004603011	WTR, SELF-LUCTION, CL	.09	.0122	.0061	0	2	0	0	0	0	0	0	0	0	0
004633070	CONNECTOR	.72	.3024	.0239	0	4	4	3	3	2	2	1	1	0	0
004640544	RELAYER, PUNCHED TAPE	200.00	.0129	.0199	0	1	1	1	1	0	0	0	0	0	0
004643555	CORE MEMORY UNIT	2100.00	.0370	.0570	0	1	1	0	0	0	0	0	0	0	0
004643571	CIRCUIT CARD ASSEMB	4.75	.0340	.0085	1	2	2	2	1	1	1	1	1	0	0
004643584	CIRCUIT CARD ASSEMB	14.38	.0246	.0246	1	2	2	2	1	1	1	1	1	0	0
004643591	CIRCUIT CARD ASSEMB	81.76	.0074	.0104	1	2	2	2	1	1	1	1	1	0	0
004643592	CIRCUIT CARD ASSEMB	15.32	.0108	.0084	1	1	1	1	1	1	1	1	1	0	0
004643593	CIRCUIT CARD ASSEMB	28.00	.1330	.0045	1	2	2	2	2	1	1	1	1	0	0
004643610	CARD EXTRACTOR	57.13	.0002	.0002	0	1	0	0	0	0	0	0	0	0	0
004643612	CIRCUIT CARD ASSEMB	94.03	.0495	.0099	1	1	1	1	1	1	1	1	1	0	0
004643615	CIRCUIT CARD ASSEMB	265.25	.0416	.0208	1	1	1	1	1	1	1	1	1	0	0
004643617	CIRCUIT CARD ASSEMB	54.10	.0188	.0094	1	1	1	1	1	1	1	1	1	0	0
004643619	CIRCUIT CARD ASSEMB	102.41	.0224	.0112	1	1	1	1	1	1	1	1	1	0	0
004643620	CIRCUIT CARD ASSEMB	80.82	.1870	.0110	1	2	2	2	1	1	1	1	1	0	0
004643623	CIRCUIT CARD ASSEMB	110.32	.0148	.0074	1	1	1	1	1	1	1	1	1	0	0
004643630	CIRCUIT CARD ASSEMB	60.25	.0328	.0088	1	1	1	1	1	1	1	1	1	0	0
004643631	CIRCUIT CARD ASSEMB	142.68	.0344	.0094	1	1	1	1	1	1	1	1	1	0	0
004643632	CIRCUIT CARD ASSEMB	42.90	.0470	.0235	1	2	2	2	1	1	1	1	1	0	0
004643642	CIRCUIT CARD ASSEMB	68.70	.1076	.0158	1	2	2	2	1	1	1	1	1	0	0
004643650	CIRCUIT CARD ASSEMB	110.42	.0379	.0093	1	1	1	1	1	1	1	1	1	0	0
004643650	CIRCUIT CARD ASSEMB	80.42	.0336	.0084	1	1	1	1	1	1	1	1	1	0	0
004658108	FILTER, RADIO FREQUE	26.75	.1430	.0322	0	2	2	2	2	1	1	1	1	0	0
004658135	SWITCH, TOGGLE	12.73	.0567	.0189	1	2	2	2	1	1	1	1	1	0	0
004658487	RESISTOR-FXC	.59	1.5034	.7817	0	6	6	6	5	4	4	1	1	1	1
004660339	CONNECTOR, RECEPTAC	3.45	.5681	.0299	0	4	4	4	3	2	2	1	1	0	0
004660899	FILTER, RADIO FREQUE	141.00	.0231	.0077	0	2	2	2	1	1	1	1	1	0	0
004707772	LENS, LIGHT	1.20	1.6652	.0044	0	2	0	0	0	0	0	0	0	0	0
004709250	ADAPTER, CONNECTOR	7.52	.0588	.0049	0	3	2	2	2	1	1	1	1	0	0
004712094	RESISTOR-FXC	.19	.0478	.0074	0	3	2	2	2	1	1	1	1	0	0
004712458	RESISTOR, FIXED, WIRE	1.23	.0059	.0059	0	1	1	1	1	1	1	1	1	0	0
004714433	RESISTOR, FIXED, WIRE	14.55	.0476	.0234	0	2	2	2	1	1	1	1	1	0	0
004715041	RESISTOR, FIXED, FILM	.80	.0056	.0056	0	2	2	2	1	1	1	1	1	0	0
004715069	RESISTOR, FIXED, FILM	.52	.2548	.0537	0	4	3	3	3	1	1	1	1	0	0
004715094	CONNECTOR, RECEPTAC	11.45	.0504	.0125	0	2	2	2	1	1	1	1	1	0	0
004724821	CAPACITOR, FIXED, CER	1.80	.0656	.0041	0	2	2	2	2	1	1	1	1	0	0
004735558	WRELCH-USE	1.71	.0325	.0325	0	2	0	0	0	0	0	0	0	0	0
004744124	FUSE-CAPT 2AMP	.06	5.4132	.4511	0	1	10	10	9	3	3	3	3	1	1
004750443	GAS-VET	3.61	1.0896	.0454	0	5	5	5	4	3	3	3	3	1	1
004762142	SEMI-CONDUCTOR DEVIC	.09	.0104	.0026	1	2	2	2	2	1	1	1	1	0	0
004762143	RESISTOR, VARIABLE, W	9.50	.0052	.0026	1	1	1	1	1	1	1	1	1	0	0
004791708	RESISTOR, FIXED, FILM	.24	.0122	.0061	0	2	2	2	2	1	1	1	1	0	0
004792943	WIRE, ELECTRICAL	.09	.1428	.0238	0	3	3	3	3	1	1	1	1	0	0
004803199	RESISTOR, FIXED, WIRE	.23	.0149	.0149	0	2	2	2	1	1	1	1	1	0	0
004816032	AMPLIFIER, ELECTRONIC	223.00	.2445	.0489	0	2	1	1	1	1	1	1	1	0	0
004816037	SWITCH, RADIO FREQUE	585.00	.0118	.0118	0	1	1	1	1	0	0	0	0	0	0
004817547	RES	6.20	.0398	.0199	0	2	2	2	2	1	1	1	1	0	0
004818158	RESISTOR-FXC 2.4K 5W	.20	.0067	.0067	0	2	2	2	1	1	1	1	1	0	0
004819630	AMPLIFIER SUBASSEMB	191.00	.0740	.0374	0	1	1	1	1	0	0	0	0	0	0
004821262	ELECTRONIC COMPONENT	2800.00	.2013	.2013	1	1	1	1	1	1	1	1	1	0	0
004828341	WAVEGUIDE ASSEMBLY	68.00	.0126	.0126	0	1	1	1	1	1	1	1	1	0	0

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NII	NOMENCLATURE	PRICE	DEMAND	BRF	AQU	BL+P SPMS \$	PAGE SPMS \$	BL+P SPMS \$	SPMS \$	TRID	.27B 104	FLSP	C.S. FLSP	TRID	.27B 104	FLSP	C.S. FLSP	TRID	.27B 95	DMC
004823351	WAVEGUIDE ASSEMBLY	77.00	.0126	.0126	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004823364	WAVEGUIDE ASSEMBLY	94.00	.0126	.0126	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004823377	FILTER, HAND SUPPRES	843.00	.0577	.0199	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004831397	FUSE, CARTRIDGE	.30	.0378	.0189	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
004836044	RELAY, ARMATURE	38.52	.0499	.0499	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
004842215	REACTOR-TRANSFORMER	112.24	.0001	.0001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
004842878	RESISTOR-VAR	1.61	.0537	.0537	0	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1
004853527	REACTOR	6.28	.0034	.0034	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
004856932	CAPACITOR, FIXED, ELE	4.18	.0304	.0152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
004855713	ELECTRONIC COMPONENT	6090.00	.0192	.0199	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
004863854	MOTOR, ELECTRICAL	105.53	.0225	.0225	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004866687	CONNECTOR, ELECTRICAL	38.21	.0004	.0004	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004887320	SWITCH, ROTARY	10.61	.3834	.1917	0	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1
004898054	RAIDAR SFT SUBASSEMB	30.00	.0913	.0093	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
004899050	CONNECTOR, RECEPTAC	6.27	.1298	.1299	0	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1
004900033	RESISTOR-FIXD 2K .5W	.15	.0488	.0061	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
004900570	WAVEGUIDE ASSEMBLY	56.00	.0126	.0126	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004900830	FAN, CENTRIFUGAL	798.00	.1157	.1157	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004900741	WAVEGUIDE ASSEMBLY	223.00	.0222	.0126	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004905219	CONNECTOR, RECEPTAC	3.73	.6578	.0299	0	4	4	4	4	4	2	2	2	2	2	2	2	2	2	2
004905220	CONNECTOR, RECEPTAC	5.70	.1596	.0399	0	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1
004908810	GUIDE PIN, ELECTRICAL	.40	.0050	.0001	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
004911203	MEMORY STACK ASSEMB	2100.00	.3950	.0395	0	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1
004912637	RESISTOR-FIXD FILM	.18	.0638	.0638	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
004913664	ENCODER	4800.00	.1463	.1463	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004913654	DELAY LINE, ELECTRIC	350.00	.0308	.0077	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
004913677	ISOLATOR	1240.00	.0093	.0093	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004914264	PERFORATOR, TELETYPE	1220.00	.1189	.1189	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004914672	RESISTOR, FIXED, FILM	1500.00	.0009	.0009	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
004914687	FUSHELDER, EXTRACTO	1.49	.0452	.0452	0	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1
004917294	BRAKE MOTOR	365.00	.0052	.0046	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004918819	RESISTOR, FIXED, FILM	.59	.0096	.0032	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
004919265	CIRCUIT CARD ASSEMB	2910.00	.3728	.3728	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
004924507	MOTOR-TACHOMETER GE	5440.00	.4398	.2199	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
004924503	CABLE ASSEMBLY, PAOI	1030.00	.0098	.0098	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004924504	CABLE ASSEMBLY, PAOI	867.00	.0098	.0098	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004924505	CABLE ASSEMBLY, PAOI	873.00	.0098	.0098	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004924506	CABLE ASSEMBLY, PAOI	875.00	.0098	.0098	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004924507	CABLE ASSEMBLY, PAOI	875.00	.0124	.0124	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004924508	OSCILLOSCOPE SUBASS	4140.00	.0629	.0629	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004924544	INSERT, SCREW THREAD	.13	1.1424	.0238	0	6	6	6	6	6	3	3	3	3	3	3	3	3	3	3
004934637	CONNECTOR, PLUG, ELEC	8.08	.1380	.0230	0	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
004940432	CABLE ASSEMBLY, ASPEC	881.00	.0098	.0098	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004940451	MOTOR, ALTERNATING C	1080.00	.1041	.1041	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004940452	CABLE ASSEMBLY, PAOI	846.00	.0098	.0098	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004940450	CABLE ASSEMBLY, PAOI	849.00	.0098	.0098	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004940473	CABLE ASSEMBLY, PAOI	887.00	.0098	.0098	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004940474	CABLE ASSEMBLY, PAOI	867.00	.0098	.0098	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004940475	CABLE ASSEMBLY, PAOI	873.00	.0098	.0098	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004940476	CABLE ASSEMBLY, PAOI	870.00	.0098	.0098	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004940477	CABLE ASSEMBLY, PAOI	867.00	.0098	.0098	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004940478	CABLE ASSEMBLY, PAOI	880.00	.0098	.0098	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004940479	CABLE ASSEMBLY, PAOI	936.00	.0511	.0511	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
004940557	SWITCH, ENCODER	1510.00	.0525	.0525	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0





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DATE	091479	PRICE	DEMAND	DRF	ADU	BL+P \$	SPKS \$	PAGE	BL+P \$	SPKS \$	TRIO 104	.278 104	FLSP	C.S. FLSP	TRIO 95	.278 95
00519011	TERMINAL BOARD	2.46	.1932	.0042	0	3	2	3	3	2	1	1	0	1	1	0
00519044	LIGHT-IND	1.29	1.3400	.0175	0	6	5	5	5	4	3	4	1	1	2	1
00519743	CLIP, SPRING TENSION	2.68	.0029	.0029	0	1	1	1	1	1	0	0	0	0	0	0
00519773	FUSE-CART 8 AMP	.10	6.6720	.6672	0	12	11	11	11	10	9	12	3	3	8	3
00519814	SWITCH, SENSITIVE	4.25	.0055	.0055	0	1	1	1	1	1	0	0	0	0	0	0
00520529	CAPACITOR-FAD	5.14	.0604	.0151	1	2	2	2	2	2	1	1	1	1	1	0
00520824	COIN	38.22	.0198	.0099	0	1	1	1	1	1	0	0	0	0	0	0
00520935	SH	14.87	.0199	.0199	0	1	1	1	1	1	0	0	0	0	0	0
00521297	TOOL CASE	.62	.0109	.0109	0	0	0	0	0	0	0	0	0	0	0	0
00522067	READER A	10.00	.0099	.0099	0	1	1	1	1	0	0	0	0	0	0	0
00522271	TOOL-INSR	25.27	.0118	.0059	0	0	0	0	0	0	0	0	0	0	0	0
00525392	RESISTOR, FIXED, FILM	.11	.2344	.0586	0	4	3	3	3	3	2	2	0	0	1	0
00525362	RESISTOR, FIXED, WIRE	4.21	.0432	.0036	0	2	2	2	2	2	1	0	0	0	0	0
00531935	ATTEN	250.28	.0199	.0199	0	1	1	1	1	1	0	0	0	0	0	0
00532789	SCREW, SHOULDER	.75	.0476	.0238	0	2	2	2	2	2	1	1	0	0	0	0
00538494	RESISTOR, FIXED, WIRE	3.10	.0149	.0149	0	2	2	2	2	2	1	1	0	0	0	0
00538970	LIGHT-IND	2.28	.1496	.0038	0	3	3	3	3	2	1	1	0	0	1	0
00539192	SWITCH, ROTARY	.59	.0159	.0159	0	2	2	2	2	2	1	1	0	0	0	0
00539257	RESISTOR-VAR 5K 2W	1.12	.0568	.0142	0	2	2	2	2	2	1	1	0	0	0	0
00539265	CONNECTOR-PC ELEC	1.74	.0726	.0242	0	2	2	2	2	2	1	1	0	0	0	0
00539298	CONNECTOR, PLUG, ELEC	4.28	.1535	.1535	0	3	3	3	3	2	1	1	0	0	1	1
00539595	LAMP	.58	.1218	.0609	0	3	3	3	3	2	1	1	0	0	1	1
00541771	WAVEGUIDE ASSEMBLY	80.00	.0009	.0009	0	1	0	0	0	0	0	0	0	0	1	0
00542639	LIGHT	2.24	.1476	.0123	0	3	3	3	3	2	1	1	0	0	1	0
00542844	VOLTMETER	17.53	.0195	.0195	0	2	2	2	2	2	1	1	0	0	1	0
00543289	TERMINAL BOARD	2.11	.0092	.0023	0	2	2	2	2	2	1	1	0	0	0	0
00543745	KNOP	.42	.0258	.0129	0	2	2	2	2	2	1	1	0	0	1	0
00543775	ALCOHOL DENATURED	2.56	.1684	.1684	0	3	3	3	3	2	1	1	1	1	1	0
00543775	WAVEGUIDE ASSEMBLY	119.00	.0018	.0009	0	1	1	1	1	1	0	0	0	0	1	0
00543790	COVER, WAVEGUIDE FOR	114.00	.1499	.1499	0	2	2	2	2	2	1	1	0	0	0	0
00543793	BUSHING, CRANK	66.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
00543804	WAVEGUIDE ASSEMBLY	243.00	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	0
00543812	WAVEGUIDE ASSEMBLY	246.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
00543813	COVER, WAVEGUIDE FOR	78.00	.1499	.1499	0	2	2	2	2	2	1	1	0	0	0	0
00543814	COVER, WAVEGUIDE FOR	132.00	.1499	.1499	0	0	0	0	0	0	0	0	0	0	0	0
00543844	WAVEGUIDE ASSEMBLY	321.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
00543850	WAVEGUIDE ASSEMBLY	271.00	.0027	.0039	0	1	1	1	1	1	0	0	0	0	0	0
00543851	WAVEGUIDE ASSEMBLY	117.00	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	0
00543853	WAVEGUIDE ASSEMBLY	70.00	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	0
00543854	WAVEGUIDE ASSEMBLY	102.00	.0027	.0039	0	1	1	1	1	1	0	0	0	0	0	0
00543854	CHECK ARM ASSEMBLY	178.00	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	0
00543854	ADAPTER, RADIATION	2950.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
00543854	WAVEGUIDE ASSEMBLY	77.00	.0018	.0009	0	1	1	1	1	1	0	0	0	0	0	0
00543854	CAPACITOR-FAD 22PFD	113.00	.0095	.0165	0	2	2	2	2	2	1	1	0	0	0	0
00543854	GAGE ROD-CAP, LIQUID	1400.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
00543854	WAVEGUIDE ASSEMBLY	112.00	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	0
00543854	WAVEGUIDE ASSEMBLY	157.00	.0018	.0009	0	1	1	1	1	1	0	0	0	0	0	0
00543854	WAVEGUIDE ASSEMBLY	155.00	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	0
00543854	WAVEGUIDE ASSEMBLY	142.00	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	0
00543854	WAVEGUIDE ASSEMBLY	196.00	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	0
00543854	WAVEGUIDE ASSEMBLY	143.00	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	0
00543854	FERRITE CIRCULATOR	2450.00	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	0
00543854	WAVEGUIDE ASSEMBLY	121.00	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	0
00543854	WAVEGUIDE ASSEMBLY	145.00	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	0





DATE 091979

NIN	DESCRIPTION	PRICE	DEMAND	3VF	AQU	BL+P 90\$	SPKS 40	BL+P \$	SPRS \$	TRID 104	.278 104	FLSP	C.S. FLSP	TRID 95	.278 55	DMD
005330349	COUPLER, DIRECTIONAL	2870.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005330371	SHIELDING CASKET, EL	20.50	.0114	.0057	0	1	1	1	1	0	0	0	0	0	0	0
005330402	SHIELDING CASKET, EL	51.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
005330406	SHIELDING CASKET, EL	53.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
005330434	SHIELDING CASKET, EL	28.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
005330479	LIGHT-IND	2.74	.1614	.0269	0	3	3	2	2	1	1	0	1	1	1	0
005332763	FERRULE-RF CPL	.41	2.2300	.0446	0	7	7	6	6	3	3	1	1	3	2	0
005335531	BUSHING, ELECTRICAL	.77	.0474	.0158	0	2	2	2	2	1	1	0	0	0	0	0
005344122	CONNECTOR, RECTANG	13.00	.0147	.0049	0	1	1	1	1	0	0	0	0	0	0	0
005344124	CONNECTOR, RECTANG	23.50	.0049	.0049	0	1	1	1	1	0	0	0	0	0	0	0
005344165	SHIELDING CASKET, EL	28.50	.0798	.0057	0	2	2	1	1	1	1	0	0	0	0	0
005344167	SHIELDING CASKET, EL	46.50	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005344184	SHIELDING CASKET, EL	63.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005344189	SHIELDING CASKET, EL	34.00	.0114	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005344250	SHIELDING CASKET, EL	32.50	.0171	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005344274	SHIELDING CASKET, EL	39.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005344277	SHIELDING CASKET, EL	60.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005344284	SHIELDING CASKET, EL	74.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005357270	LINE, RADIO FREQUEN	277.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005357274	LINE, RADIO FREQUEN	277.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005357285	LINE, RADIO FREQUEN	277.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005358075	SLINE SECTION, ORLE	339.00	.0098	.0049	0	1	1	1	1	0	0	0	0	0	0	0
005358082	WAVEGUIDE ASSEMBLY	63.00	.0049	.0049	0	1	1	1	1	1	1	0	0	0	0	0
005358724	WAVEGUIDE ASSEMBLY	114.00	.0049	.0049	0	1	1	1	1	1	1	0	0	0	0	0
005358814	WAVEGUIDE ASSEMBLY	445.00	.0049	.0049	0	1	1	1	1	1	1	0	0	0	0	0
005358864	WAVEGUIDE ASSEMBLY	410.00	.0114	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005358894	PLUG, ADAPTER	123.00	.0009	.0009	0	1	1	1	1	1	1	0	0	0	0	0
005358934	WRENCH, OPEN END	1.30	.0018	.0009	0	1	1	1	1	1	1	0	0	0	0	0
005360094	SHIELDING CASKET, EL	37.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360095	SHIELDING CASKET, EL	64.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360096	SHIELDING CASKET, EL	64.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360144	FUSHOLDER, EXTRACT	1.30	.0458	.0458	0	2	2	2	2	1	1	0	0	0	0	0
005360145	KVAR-PIT	.31	.1352	.0169	0	3	3	3	3	1	1	0	0	0	0	0
005360149	WAVEGUIDE ASSEMBLY	81.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360149	WAVEGUIDE ASSEMBLY	81.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360149	WAVEGUIDE ASSEMBLY	200.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360149	WAVEGUIDE ASSEMBLY	287.00	.0009	.0009	0	1	1	1	1	1	1	0	0	0	0	0
005360149	WAVEGUIDE ASSEMBLY	84.00	.0049	.0049	0	1	1	1	1	1	1	0	0	0	0	0
005360149	SHIELDING CASKET, EL	52.00	.0147	.0049	0	1	1	1	1	1	1	0	0	0	0	0
005360149	SHIELDING CASKET, EL	59.00	.0049	.0049	0	1	1	1	1	1	1	0	0	0	0	0
005360149	SHIELDING CASKET, EL	101.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360149	SHIELDING CASKET, EL	84.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360149	SHIELDING CASKET, EL	14.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360149	SHIELDING CASKET, EL	58.00	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360149	SHIELDING CASKET, EL	64.00	.0114	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360149	SHIELDING CASKET, EL	71.00	.0114	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360149	SHIELDING CASKET, EL	9.50	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360149	SHIELDING CASKET, EL	17.50	.0057	.0057	0	1	1	1	1	1	1	0	0	0	0	0
005360149	CONNECTOR	4.52	.0090	.0090	0	1	1	1	1	1	1	0	0	0	0	0
005360149	WAVEGUIDE ASSEMBLY	125.00	.0009	.0009	0	1	1	1	1	1	1	0	0	0	0	0
005360149	WAVEGUIDE ASSEMBLY	125.00	.0009	.0009	0	1	1	1	1	1	1	0	0	0	0	0
005360149	WAVEGUIDE ASSEMBLY	145.00	.0009	.0009	0	1	1	1	1	1	1	0	0	0	0	0
005360149	WAVEGUIDE ASSEMBLY	592.00	.0009	.0009	0	1	1	1	1	1	1	0	0	0	0	0

DATE 1/21/79

DATE	ITEM	DESCRIPTION	PRICE	DEMAND	BRF	ADU	BL+P \$	SPAS \$	24 \$	SPAS \$	TRID 104	.278 104	FLSP	C.S. FLSP	TRID 95	.278 95	DMO
005579207	WAVEGUIDE ASSEMBLY		258.00	.0009	.0009	0	0	1	0	0	0	0	0	0	0	0	0
005579209	WAVEGUIDE ASSEMBLY		203.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005579211	WAVEGUIDE ASSEMBLY		186.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005579214	WAVEGUIDE ASSEMBLY		111.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005579218	LINE RADIO FREQUENC		286.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579224	LINE RADIO FREQUENC		290.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579228	LINE RADIO FREQUENC		289.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579232	LINE RADIO FREQUENC		280.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579268	LINE RADIO FREQUENC		278.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579270	LINE RADIO FREQUENC		278.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579345	WAVEGUIDE ASSEMBLY		480.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579346	LINE RADIO FREQUENC		770.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579370	LINE RADIO FREQUENC		281.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579372	LINE RADIO FREQUENC		281.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579374	LINE RADIO FREQUENC		281.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579405	LINE RADIO FREQUENC		616.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579426	SCALECATHODE RAY T		109.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005579457	LINE RADIO FREQUENC		616.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579486	LINE RADIO FREQUENC		616.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579487	LINE RADIO FREQUENC		616.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579488	CABLE ASSEMBLY SPEC		283.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579492	LINE RADIO FREQUENC		278.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579493	LINE RADIO FREQUENC		280.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579514	LINE RADIO FREQUENC		278.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579544	LINE RADIO FREQUENC		616.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579549	LINE RADIO FREQUENC		616.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579647	WAVEGUIDE ASSEMBLY		133.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005579849	WAVEGUIDE ASSEMBLY		74.00	.0057	.0057	0	1	1	1	1	1	1	1	1	1	1	1
005579850	WAVEGUIDE ASSEMBLY		74.00	.0114	.0057	0	1	1	1	1	1	1	1	1	1	1	1
005579885	WAVEGUIDE ASSEMBLY		151.00	.0049	.0049	0	1	1	1	1	1	1	1	1	1	1	1
005579894	COUPLER, DIRECT, IMA		493.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005579894	SHIELDING GASKET, EL		7.30	.0228	.0057	0	2	2	1	1	1	1	1	1	1	1	1
005579897	SHIELDING GASKET, EL		53.00	.0057	.0057	0	1	1	1	1	1	1	1	1	1	1	1
005579898	SHIELDING GASKET, EL		9.50	.0114	.0057	0	1	1	1	1	1	1	1	1	1	1	1
005579899	SHIELDING GASKET, EL		18.50	.0114	.0057	0	1	1	1	1	1	1	1	1	1	1	1
005579936	SHIELDING GASKET, EL		16.00	.0114	.0057	0	1	1	1	1	1	1	1	1	1	1	1
005593630	COUPLING, SHIRT, FLEX		423.00	.0198	.0009	0	1	1	1	1	1	1	1	1	1	1	1
005593652	WAVEGUIDE ASSEMBLY		320.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005593657	WAVEGUIDE ASSEMBLY		121.00	.0009	.0009	0	1	1	1	1	1	1	1	1	1	1	1
005593671	WAVEGUIDE ASSEMBLY		121.00	.0009	.0009	0	1	1	1	1	1	1	1	1	1	1	1
005593672	WAVEGUIDE ASSEMBLY		304.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005593673	WAVEGUIDE ASSEMBLY		149.00	.0057	.0057	0	1	1	1	1	1	1	1	1	1	1	1
005593680	CLAMP, WAVEGUIDE		249.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005593693	BEARING, SLEEVE		133.00	.0342	.0057	0	1	1	1	1	1	1	1	1	1	1	1
005594024	SHIELDING GASKET, EL		1.30	.0228	.0057	0	2	2	1	1	1	1	1	1	1	1	1
005594025	SHIELDING GASKET, EL		136.00	.0057	.0057	0	1	1	1	1	1	1	1	1	1	1	1
005594027	SHIELDING GASKET, EL		40.50	.0057	.0057	0	1	1	1	1	1	1	1	1	1	1	1
005594029	SHIELDING GASKET, EL		43.50	.0057	.0057	0	1	1	1	1	1	1	1	1	1	1	1
005594030	SHIELDING GASKET, EL		73.00	.0049	.0049	0	1	1	1	1	1	1	1	1	1	1	1
005594033	SHIELDING GASKET, EL		16.00	.0114	.0057	0	1	1	1	1	1	1	1	1	1	1	1
005598346	CLAMP, LOOP		.06	.0000	.0000	0	0	0	0	0	0	0	0	0	0	0	0
005607473	STUD		.47	.0000	.0000	0	0	0	0	0	0	0	0	0	0	0	0
005609262	CLAMP-LOOP		.06	2.2479	.0381	0	0	0	0	0	0	0	0	0	0	0	0
005620139	WAVEGUIDE ASSEMBLY		93.00	.0057	.0057	0	1	1	1	1	1	1	1	1	1	1	1



DATE 091975

ITEM	DESCRIPTION	PRICE	DEMAND	BRF	ADU	BL+P 904	PAGE SPKS 90	BL+P SS	SPKS SS	TRID 104	-273 104	FLSP	C.S. FLSP	TRID 95	-272 55	DMD
005620223	WAVEGUIDE ASSEMBLY	170.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005620257	WAVEGUIDE ASSEMBLY	167.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005620284	WAVEGUIDE ASSEMBLY	148.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005620314	CLAMP, WAVEGUIDE	83.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
005620624	CABLE ASSEMBLY, SPEC	490.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005621287	WAVEGUIDE ASSEMBLY	67.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
005621414	WAVEGUIDE ASSEMBLY	93.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
005621464	BEAD ASSEMBLY	8.70	.0243	.0009	0	2	2	1	1	0	0	0	0	0	0	0
005621544	WAVEGUIDE ASSEMBLY	335.00	.0057	.0057	0	1	1	0	0	0	0	0	0	0	0	0
005621944	SHIELDING GASKET, EL	22.50	.0049	.0049	0	1	1	1	1	0	0	0	0	0	0	0
005621947	SHIELDING GASKET, EL	55.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
005621981	SHIELDING GASKET, EL	25.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
005622102	SHIELDING GASKET, EL	40.50	.0114	.0057	0	1	1	1	1	0	0	0	0	0	0	0
005622103	SHIELDING GASKET, EL	43.50	.0018	.0009	0	1	1	1	1	0	0	0	0	0	0	0
005623170	CRIMPING TOOL, TERM	50.56	.0096	.0048	0	0	0	0	0	0	0	0	0	0	0	0
005630115	CORNER, DIRECTIOAL	72.53	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005631372	SHIELDING GASKET, EL	1.27	.0000	.0000	0	0	0	0	0	0	0	0	0	0	0	0
005631394	RESISTOR-FXL	.20	.0122	.0061	0	2	2	2	2	3	3	0	0	0	0	0
005637684	SEAL, WAVEGUIDE	20.00	2.3322	.0299	0	6	5	2	5	4	4	1	1	2	2	2
005637684	CONNECTOR, PLUG, ELEC	31.50	.0108	.0009	0	1	1	1	1	0	0	0	0	0	0	0
005637690	SHIELDING GASKET, EL	34.50	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
005637692	SHIELDING GASKET, EL	13.50	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
005637693	SHIELDING GASKET, EL	7.50	.0069	.0057	0	2	2	2	2	1	1	0	0	0	0	0
005637693	SHIELDING GASKET, EL	1.20	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
005642044	RESISTOR, FIXED, WIRE	7.45	.0198	.0198	0	2	2	2	2	1	1	0	0	0	0	0
005650072	TERMINAL, LUG	.06	.1003	.0017	0	3	3	3	3	1	1	0	0	0	0	0
005651229	WAVEGUIDE ASSEMBLY	164.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005651274	WAVEGUIDE ASSEMBLY	110.00	.0018	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005651274	WAVEGUIDE ASSEMBLY	304.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005651299	WAVEGUIDE ASSEMBLY	154.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005651304	WAVEGUIDE ASSEMBLY	104.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005651397	LINE, RADIO FREQUENC	277.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005651412	LINE, RADIO FREQUENC	277.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005651510	LINE, RADIO FREQUENC	284.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005651543	LINE, RADIO FREQUENC	284.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005651547	LINE, RADIO FREQUENC	614.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005651629	LINE, RADIO FREQUENC	281.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005651629	LINE, RADIO FREQUENC	281.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005651674	LINE, RADIO FREQUENC	286.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005651677	LINE, RADIO FREQUENC	280.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005651724	WAVEGUIDE ASSEMBLY	167.00	.0049	.0049	0	1	1	0	0	0	0	0	0	0	0	0
005652143	SHIELD, SHIELDER	1060.00	.0018	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005652245	WAVEGUIDE ASSEMBLY	127.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005652364	VOLTAGE CONTROLLER	19980.00	.0939	.0939	0	1	1	0	0	0	0	0	0	0	0	0
005652434	WAVEGUIDE ASSEMBLY	185.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005652477	WAVEGUIDE ASSEMBLY	314.00	.0057	.0057	0	1	1	0	0	0	0	0	0	0	0	0
005652224	WAVEGUIDE ASSEMBLY	183.00	.0057	.0057	0	1	1	0	0	0	0	0	0	0	0	0
005652274	WAVEGUIDE ASSEMBLY	158.00	.0171	.0057	0	1	1	0	0	0	0	0	0	0	0	0
005652284	WAVEGUIDE ASSEMBLY	270.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005652294	TURBOIL FILL	83.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
005652297	PLUG, DRAIN, ASSEMBLY	690.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005652302	CABLE ASSEMBLY, PONE	602.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005652304	CABLE ASSEMBLY, PONE	590.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005652304	BELLOWS, PRESSURE	404.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
005652444	SHIELDING GASKET, EL	20.00	.0019	.0019	0	1	1	0	0	0	0	0	0	0	0	0



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UIN	NOMENCLATURE	PRICE	DEMAND	BRF	AQ	BL+P \$	PAGE SPKS \$	BL+P \$	SPKS \$	TRID 104	.273 104	FLSP	C.S. FLSP	TRID 95	.273 95	DMD
003662467	SHIELDING GASKET, EL	97.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
003670623	LINE, RADIO FREQUENC	270.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
003670624	CABLE ASSEMBLY, SPEC	3020.00	.0099	.0099	0	0	1	0	0	0	0	0	0	0	0	0
003670624	POWER SUPPLY	640.00	.0669	.0669	0	1	1	1	1	0	0	0	0	0	0	0
003670634	LINE, RADIO FREQUENC	280.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
003670717	CABLE ASSEMBLY, RAD	340.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
003670874	PIR, GROOVES, HEADLES	43.50	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
003670885	PIR, GROOVES, HEADLES	48.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
003671014	SHIELDING GASKET, EL	82.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
003671789	SHIELDING GASKET, EL	18.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
003671994	SHIELDING GASKET, EL	7.10	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
003672063	SHIELDING GASKET, EL	32.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
003672073	SHIELDING GASKET, EL	5.00	.0057	.0057	0	2	2	1	1	0	0	0	0	0	0	0
003700034	WAVEGUIDE ASSEMBLY	150.00	.0018	.0018	0	1	1	0	0	0	0	0	0	0	0	0
003700064	GENERATOR, PULSE N	1510.00	.0249	.0249	0	1	1	0	0	0	0	0	0	0	0	0
003700073	WAVEGUIDE ASSEMBLY	259.00	.0049	.0049	0	1	1	0	0	0	0	0	0	0	0	0
003700074	WAVEGUIDE ASSEMBLY	123.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
003700074	WAVEGUIDE ASSEMBLY	124.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
003700074	WAVEGUIDE ASSEMBLY	640.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
003700081	WAVEGUIDE ASSEMBLY	267.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
003700082	WAVEGUIDE ASSEMBLY	210.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
003700114	BEARING, SLEEVE	36.00	.0018	.0018	0	1	1	1	1	0	0	0	0	0	0	0
003700140	SHIELDING GASKET, EL	55.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
003700142	SHIELDING GASKET, EL	7.70	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
003700441	RESISTOR, FIXED, PIPE	1.43	.0312	.0032	0	2	2	2	2	1	1	0	0	0	0	0
003718912	WAVEGUIDE ASSEMBLY	50.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
003718980	ISOLATOR, RADIO FREQ	585.00	.0018	.0018	0	0	0	0	0	0	0	0	0	0	0	0
003719041	BUSHING, SLEEVE	67.00	.0036	.0036	0	0	0	0	0	0	0	0	0	0	0	0
003719092	CUMPLER, DIRECTIONAL	216.00	.0009	.0009	0	1	1	1	1	0	0	0	0	0	0	0
003719141	SHIELDING GASKET, EL	42.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
003719317	CLAMP, RIM, CLENCHING	1.28	.3837	.1279	0	4	4	3	3	2	2	1	0	0	0	0
003737849	SHOCK ABSORBER, RATE	567.00	.0045	.0009	0	1	1	0	0	0	0	0	0	0	0	0
003738084	CABLE ASSEMBLY, PAIR	54.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0
003738091	LINE, RADIO FREQUENC	277.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
003738092	LINE, RADIO FREQUENC	277.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
003740287	SWEET GENERATOR SUB	2280.00	.0658	.0329	0	1	1	0	0	0	0	0	0	0	0	0
003742114	CONNECTOR, PLUG, ELEC	5.71	.0636	.0318	0	2	2	2	2	1	1	0	0	0	0	0
003745299	FILTER, RADIO PASS	1100.00	.0525	.0525	0	1	1	1	1	0	0	0	0	0	0	0
003750180	LINE, RADIO FREQUENC	280.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
003750273	WAVEGUIDE ASSEMBLY	380.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
003750320	WAVEGUIDE ASSEMBLY	65.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
003750312	WIPE FABRIC	710.00	.0098	.0049	0	1	1	1	1	0	0	0	0	0	0	0
003750342	WINDUP, OBSERVATION	153.00	.0171	.0057	0	1	1	1	1	0	0	0	0	0	0	0
003750360	PEDESTAL SHOCK ARSO	484.00	.0072	.0039	0	1	1	1	1	0	0	0	0	0	0	0
003750309	LINE, RADIO FREQUENC	610.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0
003751280	SHIELDING GASKET, EL	103.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
003751325	SHIELDING GASKET, EL	13.50	.0009	.0009	0	1	1	1	1	0	0	0	0	0	0	0
003751344	SHIELDING GASKET, EL	43.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
003751354	SHIELDING GASKET, EL	78.00	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0
003773719	RESISTOR, VARIABLE, N	1.61	.0548	.0274	0	2	2	2	2	1	1	0	0	0	0	0
003775214	SEMICONDUCTOR DEVICE-DIO	.64	.5508	.0381	0	4	4	4	4	2	2	1	0	0	0	0
003777129	RESISTOR-VAR 2.5K 2W	1.50	.0243	.0243	0	2	2	2	2	1	1	0	0	0	0	0
003781251	TERMINAL, STLO	.57	1.7612	.0238	0	6	6	6	6	3	3	1	0	0	0	0
003782317	FERRULE, RADIO FREQU	.11	2.7900	.0358	0	8	8	8	8	4	4	1	0	0	0	0
003782841	SHIELDING GASKET, EL	44.50	.0057	.0057	0	1	1	1	1	0	0	0	0	0	0	0







DATE	091979	NLIN	NOMENCLATURE	PRICE	DEMAND	HRF	ADQ	BL+P SPMS .90	BL+P SPMS \$3	29	SPRS \$3	TRID 104	.278 104	FLSP	CUSP FLSP	TRID 95	.278 95	DATE	091
000244267	CABLE ASSEMBLY,RADI	277.00	.0009	.0009	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	003919544	
000244267	CABLE ASSEMBLY,RADI	277.00	.0009	.0009	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	003920013	
000244344	CABLE ASSEMBLY,RADI	277.00	.0009	.0009	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0040005305	
000244344	CABLE ASSEMBLY,RADI	277.00	.0009	.0009	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0040014004	
000244437	CABLE ASSEMBLY,RADI	277.00	.0009	.0009	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0040017466	
000244499	SEMICONDUCTOR DEVIC	13.27	.0234	.0234	.0234	.0234	2	3	3	1	2	2	2	2	2	2	2	0040018122	
000271096	RESISTOR,FIXED,FILM	.46	.0796	.0796	.0796	.0796	2	3	3	2	2	2	2	2	2	2	2	0040020124	
000273717	FUSEHOLDER	3.66	.0867	.0867	.0867	.0867	0	2	2	2	2	2	2	2	2	2	2	0040021749	
0003030604	SWITCH,INERTIA	14.77	.0572	.0572	.0572	.0572	0	2	2	1	1	1	1	1	1	1	1	0040030005	
000327428	CAPACITOR,FIXED,PLA	.30	.0050	.0050	.0050	.0050	0	2	2	1	1	1	1	1	1	1	1	0040030005	
000333745	TOOL-INSR	39.43	.0378	.0378	.0378	.0378	0	6	6	5	5	3	3	3	3	3	3	0040030005	
0003367340	FERULE,RADIO FREQ	.20	1.1900	1.1900	1.1900	1.1900	0	2	2	0	0	0	0	0	0	0	0	0040030005	
0003367340	PUSH BTN NUT	.01	.0153	.0153	.0153	.0153	0	0	0	0	0	0	0	0	0	0	0	0040030005	
000337049	SCREW,MACHINE	.01	.0001	.0001	.0001	.0001	0	0	0	0	0	0	0	0	0	0	0	0040030005	
000337769	SCREW,MACHINE	.01	.0001	.0001	.0001	.0001	0	0	0	0	0	0	0	0	0	0	0	0040030005	
0003395765	SCREW,MACHINE	.02	.0040	.0040	.0040	.0040	0	2	2	2	2	2	2	2	2	2	2	0040030005	
0003395765	SCREW,MACHINE	.02	.0040	.0040	.0040	.0040	0	2	2	2	2	2	2	2	2	2	2	0040030005	
000422172	RESISTOR-FXC	.05	.0189	.0189	.0189	.0189	0	2	2	2	2	2	2	2	2	2	2	0040030005	
000422172	RESISTOR-FXC	.05	.0189	.0189	.0189	.0189	0	2	2	2	2	2	2	2	2	2	2	0040030005	
0004363051	RESISTOR,VARIABLE,M	2.68	.0474	.0474	.0474	.0474	0	2	2	2	2	2	2	2	2	2	2	0040030005	
0004363051	RESISTOR,VARIABLE,M	2.68	.0474	.0474	.0474	.0474	0	2	2	2	2	2	2	2	2	2	2	0040030005	
0004363051	RESISTOR,VARIABLE,M	2.68	.0474	.0474	.0474	.0474	0	2	2	2	2	2	2	2	2	2	2	0040030005	
0004363051	RESISTOR,VARIABLE,M	2.68	.0474	.0474	.0474	.0474	0	2	2	2	2	2	2	2	2	2	2	0040030005	
0004363051	RESISTOR,VARIABLE,M	2.68	.0474	.0474	.0474	.0474	0	2	2	2	2	2	2	2	2	2	2	0040030005	
0004363051	RESISTOR,VARIABLE,M	2.68	.0474	.0474	.0474	.0474	0	2	2	2	2</								



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DATE	091979	NUMERICAL	PRICE	UENALD	REF	ADQ	BL+P \$90\$	PAGE SPKS \$90	BL+P \$90	SPKS \$90	TRID 104	TRID 104	272 104	FLSP	C.S. FLSP	TRIC 95	278 95	DMO
00683772	RESISTOR, FIXED, WIRE	1.07	0032	0032	0032	0	1	1	1	1	1	1	1	0	0	0	0	0
00684954	CONNECTOR, RECEPTACL	2.03	0013	0013	0013	0	2	2	2	2	2	2	2	0	0	0	0	0
00687071A	RESISTOR, FWD, 330W	.13	0010	0010	0010	0	2	2	2	2	2	2	2	0	0	0	0	0
006897465	CIRCUIT CARD ASSEMB	325.00	0037	0037	0037	0	1	1	1	1	1	1	1	0	0	0	0	0
006897494	CIRCUIT CARD ASSEMB	2020.00	0297	0297	0297	0	2	2	2	2	2	2	2	1	1	1	1	1
00689749A	CIRCUIT CARD ASSEMB	2340.00	0476	0476	0476	0	1	1	1	1	1	1	1	0	0	0	0	0
006897565	CIRCUIT CARD ASSEMB	720.00	0592	0592	0592	0	2	2	2	2	2	2	2	1	1	1	1	1
00689756A	CIRCUIT CARD ASSEMB	697.00	0357	0357	0357	0	1	1	1	1	1	1	1	0	0	0	0	0
006897607	CIRCUIT CARD ASSEMB	1590.00	0243	0243	0243	0	2	2	2	2	2	2	2	1	1	1	1	1
00689762A	ELECTRONIC COMPONEN	2530.00	0199	0199	0199	1	1	1	1	1	1	1	1	0	0	0	0	0
00689763A	CIRCUIT CARD ASSEMB	957.00	0198	0198	0198	0	1	1	1	1	1	1	1	0	0	0	0	0
006897754	OSCILLATOR SUBASSEM	3590.00	0040	0040	0040	0	1	1	1	1	1	1	1	0	0	0	0	0
006897718	ELECTRONIC COMPONEN	2320.00	0999	0999	0999	0	1	1	1	1	1	1	1	0	0	0	0	0
006898135	ELECTRONIC COMPONEN	2270.00	0449	0449	0449	0	1	1	1	1	1	1	1	0	0	0	0	0
006898138	CIRCUIT CARD ASSEMB	422.00	0204	0204	0204	0	2	2	2	2	2	2	2	1	1	1	1	1
006898140	CIRCUIT CARD ASSEMB	1330.00	0199	0199	0199	0	1	1	1	1	1	1	1	0	0	0	0	0
006898845	TRANSFORMER, POWER, S	119.00	0126	0126	0126	0	1	1	1	1	1	1	1	0	0	0	0	0
006898849	TRANSFORMER, POWER, S	1230.00	0126	0126	0126	0	1	1	1	1	1	1	1	0	0	0	0	0
00691237	FEEDBACK, RADIO FREQU	.04	5.5870	5.5870	5.5870	0	11	11	11	11	11	11	11	10	10	10	10	10
00695605A	SHIELD, PLASTIC	6.41	0034	0034	0034	0	2	2	2	2	2	2	2	1	1	1	1	1
00697310R	COUPLING, WAVEGUIDE	11.02	0015	0015	0015	0	1	1	1	1	1	1	1	1	1	1	1	1
006993440	CLAMP, TOP	.21	0269	0269	0269	0	4	4	4	4	4	4	4	3	3	3	3	3
00702373A	TERMINAL BOARD	1.77	0139	0139	0139	0	2	2	2	2	2	2	2	1	1	1	1	1
007024199	JACK-TIP, RED	.32	1312	1312	1312	0	3	3	3	3	3	3	3	2	2	2	2	2
007025431	SWITCH	12.55	00771	00771	00771	0	2	2	2	2	2	2	2	2	2	2	2	2
007035362	BRACKET, ANGLE	.16	0000	0000	0000	0	2	2	2	2	2	2	2	2	2	2	2	2
007055001	GEOMETRICAL	7.60	1065	1065	1065	0	3	3	3	3	3	3	3	3	3	3	3	3
007055803	GEOP, HELICAL	3.00	2832	2832	2832	0	3	3	3	3	3	3	3	3	3	3	3	3
007071250	COIL, RADIO FREQUENC	.80	0148	0148	0148	0	4	4	4	4	4	4	4	3	3	3	3	3
007074252	TERMINAL-STD	.29	0207	0207	0207	0	4	4	4	4	4	4	4	3	3	3	3	3
007103784	CLAMP	.54	0036	0036	0036	0	1	1	1	1	1	1	1	1	1	1	1	1
00712616A	CAPACITOR-FWD, NICA	1.22	0092	0092	0092	0	3	3	3	3	3	3	3	2	2	2	2	2
00712735A	CONNECTOR-PC ELEC	5.63	0030	0030	0030	0	2	2	2	2	2	2	2	2	2	2	2	2
007165591	SHIELD ELEC	1.74	0010	0010	0010	0	2	2	2	2	2	2	2	2	2	2	2	2
007210493	CONNECTOR-RCPTL ELEC	4.46	0101	0101	0101	0	1	1	1	1	1	1	1	1	1	1	1	1
007215791	NUT, SELF-LOCKING, PL	.10	3622	3622	3622	0	4	4	4	4	4	4	4	4	4	4	4	4
007217431	PIV, STRAIGHT, HELE	.05	0142	0142	0142	0	4	4	4	4	4	4	4	4	4	4	4	4
007223052	PIV, STRAIGHT, HELE	1.39	0476	0476	0476	0	4	4	4	4	4	4	4	4	4	4	4	4
007233378	LEAD-RED	.45	0507	0507	0507	0	2	2	2	2	2	2	2	2	2	2	2	2
00723370A	SWITCH, RADIO FREQUE	48.15	0028	0028	0028	0	1	1	1	1	1	1	1	1	1	1	1	1
00723719A	SCREW, EXTERNALLY BE	.05	0005	0005	0005	0	1	1	1	1	1	1	1	1	1	1	1	1
007244359	SPURGE, CONDUCTOR	.37	0510	0510	0510	0	2	2	2	2	2	2	2	2	2	2	2	2
007247159	SCREW ASSY	.27	0113	0113	0113	0	5	5	5	5	5	5	5	4	4	4	4	4
007274588	TERMINAL	.45	0370	0370	0370	0	3	3	3	3	3	3	3	3	3	3	3	3
007275243	TERMINAL-STD	.18	1120	1120	1120	0	3	3	3	3	3	3	3	3	3	3	3	3
007277373	CONNECTOR, RECEPTACL	20.33	0136	0136	0136	0	1	1	1	1	1	1	1	1	1	1	1	1
007283617	CONNECTOR, PLUG, ELEC	2.19	1300	1300	1300	0	3	3	3	3	3	3	3	3	3	3	3	3
00728390A	ADAPTER, COIL ELEC	2.46	0412	0412	0412	0	2	2	2	2	2	2	2	2	2	2	2	2
007284514	JACK-TIP, WHITE	.36	0467	0467	0467	0	4	4	4	4	4	4	4	4	4	4	4	4
00728560A	CONNECTOR, RECEPTACL	2.63	0350	0350	0350	0	2	2	2	2	2	2	2	2	2	2	2	2
007286521	FOUR-LEAF	29.15	0040	0040	0040	0	2	2	2	2	2	2	2	2	2	2	2	2
007289044	FEEDBACK-ELEC COND	.03	0230	0230	0230	0	1	1	1	1	1	1	1	1	1	1	1	1
007295493	SPURGE, CONDUCTOR	.17	0112	0112	0112	0	2	2	2	2	2	2	2	2	2	2	2	2
007295763	SPURGE-SLV	.45	0023	0023	0023	0	3	3	3	3	3	3	3	3	3	3	3	3
007297230	FEEDBACK	1.06	10.7644	10.7644	10.7644	0	13	13	13	13	13	13	13	12	12	12	12	12







DATE	091979	DATE	091979
NIN	NOMENCLATURE	PRICE	DEMAND
003031223	TOOL-CRIP	50.47	.2234
003047554	CAPACITOR-PAD 1000PF500V	.74	.0336
003050533	WASHER	.02	.0000
003051263	CONNECTOR-RECEPTACL	2.87	.0113
003053783	CONNECTOR-PLUG-ELECL	4.82	1.1000
003054583	CONNECTOR	2.14	.0067
003055162	CONTACT-ELECTRICAL	.18	15.2100
003077774	SETSCREW	.19	.0268
003084657	FERRULE-RADIO FREQU	.05	2.3700
003084658	FERRULE-RADIO FREQU	.17	2.7000
003087213	FERRULE-RADIO FREQU	.09	.3950
003087214	FERRULE-RADIO FREQU	.11	5.2425
003087215	FERRULE-RADIO FREQU	.18	.3950
003087216	FERRULE-RADIO FREQU	.14	.9480
003087220	FERRULE-ELECTRICAL	.73	2.6600
003087221	LIGHT-IND	1.37	.0204
003087222	TERMINAL-PLUG	1.00	.0441
003087223	RELAY	32.64	.1956
003087224	RELAY	35.55	.1288
003087225	RELAY	29.71	.0322
003087226	CONNECTOR BODY-PLUG	4.32	.0393
003087227	CONNECTOR BODY-PLUG	3.00	.0390
003087228	CONNECTOR BODY-PLUG	5.89	.0090
003087229	FERRULE-RADIO FREQU	.02	.0100
003087230	TERMINAL BOARD	4.14	.0208
003087231	CONNECTOR-KCPTL ELECL	3.07	.0113
003087232	LIGHT-IND	.57	.0404
003087233	KEYTOP, TELETYPE-RT	.18	.0004
003087234	INSERT	.23	.0506
003087235	TUBING-INSUL ELECL	.07	2.9997
003087236	INSULATION SLEEVING	.20	.0299
003087237	FERRULE-RADIO FREQU	.19	.3.9950
003087238	CONNECTOR-PC-ELECL	1.71	.0736
003087239	RING-RETAINING	.01	.0055
003087240	HEATING ELEMENT-ELE	9.24	2.1546
003087241	CONNECTOR	3.00	.0068
003087242	CLIP-ELECL	1.23	.0634
003087243	CONNECTOR-RECEPTACL	2.82	.0299
003087244	LIGHT ASSY	2.26	.0347
003087245	CARD EXTENDER	59.44	.0612
003087246	CONNECTOR	2.68	.0053
003087247	TERMINAL BOARD	2.50	.0741
003087248	FIRE FRESH-KNITTED	.45	.0075
003087249	BUSHING	.13	.0020
003087250	SETSCREW	.25	.0036
003087251	TRANSISTOR	1.12	.2700
003087252	INSULATION SLEEVING	.19	.1495
003087253	KEYTOP, TELETYPE-RT	.16	.0001
003087254	KEYTOP, TELETYPE-RT	.18	.0001
003087255	KEYTOP, TELETYPE-RT	.18	.0001
003087256	KEYTOP, TELETYPE-RT	.18	.0001
003087257	KEYTOP, TELETYPE-RT	.18	.0001
003087258	KEYTOP, TELETYPE-RT	.18	.0001
003087259	KEYTOP, TELETYPE-RT	.18	.0001
003087260	KEYTOP, TELETYPE-RT	.15	.0001



[illegible]

DATE 091471

DATE 09/09/99

[illegible][illegible][illegible]

D-22

D-36

DATE 08/19/79

QTY	DESCRIPTION	PRICE	DEMAND	JRF	ADQ	BL+P .903	PAGE SPKS .90	BL+P SS	SPMS SS	TRID 104	.273 104	FLSP	C.S. FLSP	TRID 95	.273 95 DMD
008774021	1 SPT, SCREW, T-HEAD	.29	.0000	.0000	0	0	0	0	0	0	0	0	0	0	0
008774022	TRANSFORMER, PULSE	12.31	.0195	.0096	0	1	1	1	1	0	0	0	0	0	0
008774023	WIRY, UNAD, ALFCTIC	20.50	.0055	.0355	0	1	1	1	1	0	0	0	0	0	0
008774024	LIGHT, INDICATOR	2.00	.0055	.0355	0	1	1	1	1	0	0	0	0	0	0
008774025	CAPACITOR-FXO	7.20	.0398	.0398	0	2	2	2	2	0	0	0	0	0	0
008774026	CONNECTOR, PLUG, ELEC	9.09	.4760	.0238	0	4	4	4	4	0	0	0	0	0	0
008774027	INSERT, SCREW, THREAD	.28	.0215	.0308	0	2	2	2	2	0	0	0	0	0	0
008774028	1 SPT	.20	.0035	.0001	0	2	2	2	2	0	0	0	0	0	0
008774029	SCREW, EXTERNALLY RE	3.57	.0002	.0001	0	1	1	1	1	0	0	0	0	0	0
008774030	PULLEY, GROOVE	18.00	.0336	.0336	0	1	1	1	1	0	0	0	0	0	0
008774031	RELAY, ARMATURE	37.13	.3560	.0338	0	3	3	3	3	1	1	1	1	1	1
008774032	SEMICONDUCTOR DEVICE-DIO	.52	.0414	.0069	0	2	2	2	2	1	1	1	1	1	1
008774033	WASHER, SHOULDERED	.15	.5712	.0238	0	5	5	5	5	2	2	2	2	2	2
008774034	INSERT, SCREW, THREAD	.61	.4998	.0238	0	4	4	4	4	2	2	2	2	2	2
008774035	SOCKET-RLY	3.75	.3640	.1280	0	3	3	3	3	1	1	1	1	1	1
008774036	SHIELD PACKING	2.75	.3608	.0041	0	3	3	3	3	1	1	1	1	1	1
008774037	ELECTRONIC, SUBASSEM	7.70	.1232	.0022	1	2	2	2	2	1	1	1	1	1	1
008774038	ELECTRONIC, SUBASSEM	21.54	.0180	.0130	1	1	1	1	1	1	1	1	1	1	1
008774039	UNWRAPPING TOOL, AIR	1.01	.0004	.0002	0	4	4	4	4	0	0	0	0	0	0
008774040	HAYTER, HEAD ASSEMB	1.51	.7087	.7087	0	2	2	2	2	0	0	0	0	0	0
008774041	RESISTOR, FIXED, WIRE	1.55	.0236	.0118	0	2	2	2	2	0	0	0	0	0	0
008774042	WUT, SELF-LOCKING, CL	.21	.0736	.0046	0	3	3	3	3	1	1	1	1	1	1
008774043	CONNECTOR, RECEPT	6.21	.0126	.0126	0	1	1	1	1	0	0	0	0	0	0
008774044	SPRING HOOK-PULL	.34	.9072	.9072	0	0	0	0	0	0	0	0	0	0	0
008774045	SPRING HOOK-STK, HNDL	.38	.9052	.9052	0	3	3	3	3	1	1	1	1	1	1
008774046	RELAY, ARMATURE	27.53	.2530	.0053	0	0	0	0	0	0	0	0	0	0	0
008774047	BUSHING, MONITOR	.03	.0061	.0061	0	3	3	3	3	0	0	0	0	0	0
008774048	MOUNTING PAD, ELECTR	.02	.0488	.0061	0	3	3	3	3	0	0	0	0	0	0
008774049	FUSEHOLDER	1.19	.1836	.0027	0	0	0	0	0	0	0	0	0	0	0
008774050	FILTER, RADIO FREQUE	12.73	.0378	.0189	0	0	0	0	0	0	0	0	0	0	0
008774051	FUSE-CART	.05	1.7664	.8822	0	2	2	2	2	0	0	0	0	0	0
008774052	WINDOW, OBSERVATION	3.75	.0042	.0042	0	1	1	1	1	0	0	0	0	0	0
008774053	RETAINER, WINDOW	1.07	.0189	.0189	0	2	2	2	2	0	0	0	0	0	0
008774054	PLATE, LI	12.50	.0099	.0099	0	1	1	1	1	0	0	0	0	0	0
008774055	ARMATURE, ELECTROMAG	29.21	.0103	.0103	0	1	1	1	1	0	0	0	0	0	0
008774056	COIL, ELECTROMAGNET	49.01	.0446	.0446	0	2	2	2	2	0	0	0	0	0	0
008774057	GUIDE, BR	6.20	.0099	.0099	0	1	1	1	1	0	0	0	0	0	0
008774058	KNIP	4.70	.0001	.0001	0	0	0	0	0	0	0	0	0	0	0
008774059	ROLLER ASSEMBLY	79.18	.0001	.0001	0	0	0	0	0	0	0	0	0	0	0
008774060	CIRCUIT CARD, ASSEMB	153.00	.0253	.0253	0	1	1	1	1	0	0	0	0	0	0
008774061	PRINTED CIRCUIT, BNA	354.00	.0317	.0317	0	1	1	1	1	0	0	0	0	0	0
008774062	HEAD ASSEMBLY, READE	355.00	.0241	.0241	1	1	1	1	1	0	0	0	0	0	0
008774063	SEMICONDUCTOR DEVICE-DIO	15.54	.0660	.0230	1	2	2	2	2	1	1	1	1	1	1
008774064	TERMINAL, LUG	.13	.0090	.0046	0	3	3	3	3	1	1	1	1	1	1
008774065	TERMINAL, STLO	.19	.0034	.0017	0	1	1	1	1	0	0	0	0	0	0
008774066	CONNECTOR, PLUG, ELEC	8.59	1.2138	.0238	0	5	5	5	5	0	0	0	0	0	0
008774067	CAPACITOR-FXO	.72	.0188	.0094	0	2	2	2	2	0	0	0	0	0	0
008774068	CONNECTOR, PLUG, ELEC	7.01	.0316	.0158	0	1	1	1	1	0	0	0	0	0	0
008774069	SCREW, LOCK, ELECTRICA	.46	.0004	.0004	0	1	1	1	1	0	0	0	0	0	0
008774070	CONTACT, ELECT	1.39	1.7752	.0317	0	6	6	6	6	2	2	2	2	2	2
008774071	SWITCH	8.55	.2010	.0134	0	3	3	3	3	1	1	1	1	1	1
008774072	CAPACITOR, FIXED, PLA	4.71	.0291	.0219	0	2	2	2	2	0	0	0	0	0	0
008774073	CAPACITOR, FIXED, PLA	.81	.0039	.0039	0	1	1	1	1	0	0	0	0	0	0
008774074	SPRING, R	3.10	.0029	.0029	0	1	1	1	1	0	0	0	0	0	0



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DATE	091979	PRICE	LEMAN	REF	ADU	BL+P \$	SPRS \$	TRIC IO4	27A 104	FLSP	C.S. FLSP	TRIC 95	27A 95	040
00818564	NONREPLATLPR	2.05	.8210	.0274	0	4	4	2	2	1	1	2	1	040
00822432	FUSFOLDER	7.41	.5052	.0471	0	3	3	2	2	1	1	1	1	040
00822732	INDICATOR LIGHT MOD	17.87	.1599	.1599	0	2	2	1	1	1	1	1	1	040
00833653	FAN, THERMAL	25.47	.6996	.0318	0	4	4	2	2	1	1	1	1	040
00833135	RELAY, TEMPERATURE	2.84	.0113	.0113	0	2	2	0	0	0	0	0	0	040
00833135	CONNECTOR	212.63	.0430	.0230	0	1	1	0	0	0	0	0	0	040
00833819	FAN, CENTRIFUGAL	1.77	.0045	.0045	0	1	1	0	0	0	0	0	0	040
00855222	THERMAL TAPER PIN	1.14	.1522	.0238	0	7	6	4	4	1	1	1	1	040
00855222	FERRULE RADIO FREQU	.62	.0002	.0002	0	1	1	0	0	0	0	0	0	040
00855274	SPRING, HELICAL EXTE	.18	.4589	.0667	0	4	4	2	2	1	1	1	1	040
00877734	RESISTOR, 47K	1.40	.0003	.0293	0	2	2	0	0	0	0	0	0	040
00877737	BEARING, GAUGE PLATE	.55	.0158	.0158	0	0	0	0	0	0	0	0	0	040
00880707	WRENCH, HEX, 1/2 IN	17.66	.2342	.2342	0	0	0	0	0	0	0	0	0	040
00880734	MAINTENANCE KIT	.59	.0003	.0003	0	0	0	0	0	0	0	0	0	040
00880734	OSAM SCALE, 70 GRAMS	3.13	.0158	.0158	0	0	0	0	0	0	0	0	0	040
00880829	WRENCH, HEX, 1/2 IN	3.65	.0103	.0103	0	0	0	0	0	0	0	0	0	040
00884361	SHAFT, SHOULDERED	64.20	.0192	.0396	0	1	1	0	0	0	0	0	0	040
00884791	CONNECTOR PLUG	308.16	.0370	.0370	1	1	1	1	1	1	1	1	1	040
00884791	RELAY	.75	.0379	.0379	0	1	1	1	1	1	1	1	1	040
00884791	FERRULE, RADIO FREQU	2.58	.0052	.0052	0	1	1	1	1	1	1	1	1	040
00884791	TERMINAL BOARD	60.35	.0552	.0552	0	1	1	1	1	1	1	1	1	040
00884791	RESISTOR, FIXED FILM	11.00	.0052	.0052	0	1	1	1	1	1	1	1	1	040
00891328	HOPE, ELECTRICAL	20.50	.0374	.0374	0	2	2	2	2	2	2	2	2	040
00891328	CIRCUIT CARD ASSEMB	40.58	.0374	.0374	0	2	2	2	2	2	2	2	2	040
00891328	RELAY, ARMATURE	.20	.0462	.0462	0	1	1	1	1	1	1	1	1	040
00892073	SEMICONDUCTOR DEVICE-010	1.22	.0084	.0084	0	2	2	2	2	2	2	2	2	040
00892134	WASHER-TYP, 20X.375	1.47	.2763	.2763	0	2	2	2	2	2	2	2	2	040
00892240	CAPACITOR, FIXED CER	19.00	.0189	.0189	0	1	1	1	1	1	1	1	1	040
00892240	METER, ANALOG	.55	.4320	.4320	0	1	1	1	1	1	1	1	1	040
00892240	LAIR	1.89	.0222	.0222	0	1	1	1	1	1	1	1	1	040
00892240	RESISTOR	9.57	.1425	.1425	0	1	1	1	1	1	1	1	1	040
00892240	TUBE-ELCTR	.32	.0532	.0532	0	2	2	2	2	2	2	2	2	040
00892240	FUSFOLDER	3.75	.0459	.0459	0	2	2	2	2	2	2	2	2	040
00892240	CONNECTOR-PC REEL	3.15	.0567	.0567	0	2	2	2	2	2	2	2	2	040
00892240	SWITCH, TOGGLE	1.69	.1236	.1236	0	2	2	2	2	2	2	2	2	040
00892240	SWITCH	.45	.0646	.0646	0	2	2	2	2	2	2	2	2	040
00892240	TERMINAL BOARD	16.50	.0035	.0035	0	2	2	2	2	2	2	2	2	040
00892240	CAPACITOR, FPD 22	10.50	.9432	.9432	0	2	2	2	2	2	2	2	2	040
00892240	CIRCUIT CARD ASSEMB	20.00	.2556	.2556	0	2	2	2	2	2	2	2	2	040
00892240	CIRCUIT CARD ASSEMB	5.80	.0027	.0027	0	2	2	2	2	2	2	2	2	040
00892240	CONTACT ASSEMBLY, TA	.77	.0737	.0737	0	2	2	2	2	2	2	2	2	040
00892240	BELT, POSITIVE DRIVE	.33	.0238	.0238	0	2	2	2	2	2	2	2	2	040
00892240	CLAMP	34.45	.1104	.1104	0	2	2	2	2	2	2	2	2	040
00892240	BOAT, DUST AND MOIST	6.15	.0029	.0029	0	2	2	2	2	2	2	2	2	040
00892240	RELAY, ARMATURE	.14	.0330	.0330	0	2	2	2	2	2	2	2	2	040
00892240	CONNECTOR BODY, PLUG	7.68	.0299	.0299	0	2	2	2	2	2	2	2	2	040
00892240	TERMINAL STUD	4.16	.0140	.0140	0	2	2	2	2	2	2	2	2	040
00892240	CONNECTOR, RECEIVER	1.61	.0001	.0001	0	2	2	2	2	2	2	2	2	040
00892240	FUSFOLDER	14.19	.4321	.4321	0	2	2	2	2	2	2	2	2	040
00892240	ISOLATOR, BUSHING	.05	.0012	.0012	0	2	2	2	2	2	2	2	2	040
00892240	LIGHT, INDICATOR	.011	.0090	.0090	0	2	2	2	2	2	2	2	2	040
00892240	TERMINAL-STD	3.21	.0008	.0008	0	2	2	2	2	2	2	2	2	040
00892240	CONNECTOR	17.44	.4300	.4300	0	2	2	2	2	2	2	2	2	040
00892240	ISOLATOR, BUSHING				0	2	2	2	2	2	2	2	2	040
00892240	CONNECTOR, PCPTL				0	2	2	2	2	2	2	2	2	040





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DATE	Q31979	NITE	DESCRIPTION	PRICE	DEMAND	REF	AQU	BL+P .905	PAGE SPKS .90	BL+P \$	SPKS \$	TRID 104	.278 104	FLSP	C.S. FLSP	TRID 95	.278 95	DMD
009267523		ADAPTER-COMM	1.33	.0966	.0493	0	3	2	2	2	2	1	1	0	1	1	0	
009267550		FISHOLDER, EXTRACTO	2.62	.6150	.1025	0	4	4	3	3	3	2	2	1	1	1	1	0
009268704		RESISTOR-FAC 100 OHM .5W	.18	.1938	.0057	0	4	3	3	3	3	1	1	0	1	1	0	0
009268707		RESISTOR-FAC 1.2K	.16	.0244	.0061	0	2	2	2	2	2	0	0	0	0	0	0	0
009268708		RESISTOR-FAC 1K	.20	.5481	.0063	0	5	4	4	4	4	2	2	1	1	2	1	0
009272767		CAPACITOR, FIXED, PAP	2.20	.0086	.0063	0	2	1	1	1	1	0	0	0	0	0	0	0
009273108		SOCKET, PLUG-IN ELEC	3.53	.0299	.0299	0	2	2	2	2	2	0	0	0	0	3	2	0
009277081		LIGHT, INDICATOR	3.75	2.3226	.0158	0	6	6	6	5	5	4	4	1	1	3	2	0
009283389		SWITCH	.26	.0001	.0001	0	1	1	1	1	1	0	0	0	0	0	0	0
009283559		CONNECTOR, PLUG, ELEC	120.51	.2248	.0281	0	2	2	2	2	2	1	1	0	1	0	0	0
009283178		RESISTOR, VARIABLE	5.56	.0318	.0318	0	2	2	2	2	2	0	0	0	0	0	0	0
009273237		RESISTOR, VARIABLE	2.12	.0376	.0188	0	2	2	2	2	2	0	0	0	0	0	0	0
009295332		FAULT, SIGNAL	132.68	.0847	.0277	0	2	2	2	2	2	0	0	0	0	0	0	0
009293553		SOLDER, SLEEVE	.85	.0027	.0027	0	1	1	1	1	1	1	1	0	0	1	0	0
009293375		SWITCH, THERMOSTATIC	37.24	.1372	.0098	1	2	2	2	2	2	1	1	0	1	1	0	0
009302434		INSULATION TAPE, ELEC	.27	.1904	.0238	0	3	3	3	3	3	1	1	0	1	1	0	0
009304284		INSULATION TAPE, ELEC	20.61	.0199	.0199	0	1	1	1	1	1	1	1	0	1	0	0	0
009311941		CONNECTOR BODY, REC	2.48	.0356	.0056	0	2	2	2	2	2	1	1	0	1	0	0	0
009314004		SOCKET, PLUG-IN ELEC	6.21	.0144	.0016	0	2	2	2	2	2	1	1	0	0	0	0	0
009314037		SOCKET, PLUG-IN ELEC	12.21	.0332	.0004	0	2	2	2	2	2	1	1	0	0	0	0	0
009315244		CONNECTOR, RECEPT	1.86	.0252	.0028	0	2	2	2	2	2	0	0	0	0	0	0	0
009317652		WASHER	.25	.0001	.0001	0	1	1	1	1	1	0	0	0	0	0	0	0
009318229		SOCKET, PLUG-IN ELEC	.77	.0000	.0000	0	0	0	0	0	0	0	0	0	0	0	0	0
009320225		SCREW	.67	.0002	.0001	0	1	1	1	1	1	0	0	0	0	0	0	0
009323285		PACKING, PREFORMED	2.24	.1224	.1224	0	3	3	3	3	3	1	1	0	1	0	0	0
009323498		KEY, SOCKET HEAD SCR	5.10	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	0	0
009334399		EXTRACTION TOOL	40.26	.0270	.0135	0	1	1	1	1	1	0	0	0	0	0	0	0
009337399		SHIELD, ELECTRICAL C	3.60	.0003	.0003	0	2	2	2	2	2	1	1	0	0	0	0	0
009341043		RELAY, ARMATURE	82.39	.2390	.0478	0	2	2	2	2	2	1	1	0	1	0	0	0
009350138		SEMICONDUCTOR DEVICE-DIO	.42	1.9110	.0537	0	6	6	6	6	5	4	4	1	1	3	2	0
009352707		MOTOR, ALTERNATING C	59.52	.0637	.0637	0	2	2	2	2	2	1	1	0	0	0	0	0
009353508		FEEDER, ELECTRICAL	.03	70.5640	.0596	0	4	4	4	4	3	4	4	1	1	2	2	0
009361262		CONNECTOR, RECEPT	5.00	.2782	.0107	0	3	3	3	3	2	1	1	0	1	1	1	0
009361263		CONTACT, ELECTRICAL	.52	1.0523	.0421	0	5	5	5	5	4	3	3	1	1	2	2	0
009364657		POWER SUPPLY	451.00	.0508	.0254	0	1	1	1	1	1	0	0	0	0	0	0	0
009365558		GUIDE, FORM	3.10	.1164	.1164	0	3	3	3	3	2	1	1	0	1	1	0	0
009367514		CAPACITOR-HEAD	1.70	.0021	.0021	0	1	1	1	1	1	0	0	0	0	0	0	0
009369064		CIRCUIT CARD ASSEMB	25.50	.2094	.0698	0	1	1	1	1	1	1	1	0	1	1	0	0
009369067		CIRCUIT CARD ASSEMB	19.00	7.3904	.0495	0	0	2	2	2	2	1	1	0	1	1	0	0
009369094		CIRCUIT CARD ASSEMB	28.50	.2100	.0525	1	1	2	2	2	2	1	1	0	1	1	0	0
009369098		CIRCUIT CARD ASSEMB	31.00	.0403	.0403	1	1	2	2	2	2	1	1	1	1	1	1	0
009372435		PHOTO TUBE ASSEMBLY	444.00	1.0000	1.0000	0	2	2	2	2	2	1	1	1	1	1	1	0
009372435		ELECTRONIC COMPONENT	2020.00	.0397	.0397	0	1	1	1	1	1	0	0	0	0	0	0	0
009379338		ELECTRONIC COMPONENT	2090.00	.0397	.0397	0	1	1	1	1	1	0	0	0	0	0	0	0
009380447		WAVEGUIDE ATTENUATOR	185.00	.1008	.0125	0	2	2	2	2	2	1	1	0	0	0	0	0
009380453		ISOLATOR, RADIO FREQ	55.00	.0378	.0125	0	1	1	1	1	1	1	1	0	0	0	0	0
009380498		ISOLATOR, RADIO FREQ	513.00	.0252	.0125	0	1	1	1	1	1	1	1	0	0	0	0	0
009380554		ISOLATOR, RADIO FREQ	1650.00	.0126	.0126	0	1	1	1	1	1	1	1	0	0	0	0	0
009382714		MIXER, CRYSTAL, COAX	745.00	.0397	.0397	0	1	1	1	1	1	1	1	0	0	0	0	0
009382734		MIXER, CRYSTAL, COAX	745.00	.0669	.0669	0	1	1	1	1	1	1	1	0	0	0	0	0
009382845		WAX, SET SUBSTRATE	2580.00	.0199	.0199	0	1	1	1	1	1	1	1	0	0	0	0	0
009383124		SOLID STATE SWITCH	2380.00	.0669	.0669	0	1	1	1	1	1	1	1	0	0	0	0	0
009383182		COOLANT, COOLABLE SI	444.00	.1199	.1199	0	1	1	1	1	1	1	1	0	0	0	0	0
009383323		GENERATOR, PULSE	5460.00	.1039	.1039	0	1	1	1	1	1	1	1	0	0	0	0	0
009383327		AMPLIFIER, MULTIPLE	18030.00	.1039	.1039	0	1	1	1	1	1	1	1	0	0	0	0	0

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NIIN	NAME/DESCRIPTION	PRICE	DEMAND	DRF	ADQ	BL+P SPKS .90	PAGE SPKS .90	BL+P SPKS .90	40 BL+P SPKS .90	SPKS SS	TRID 104	.27A 104	FLSP	C.S. FLSP	TRID 95	.27B 95	UMD
009383329	AMPLIFIER SUBASSEMB	3020.00	.0199	.0199	0	1	1	1	0	0	0	0	0	0	0	0	0
009383334	REGULATOR, VOLTAGE	3640.00	.0609	.0609	0	1	1	1	0	0	0	0	0	0	0	0	0
009383339	REGULATOR, VOLTAGE	4210.00	.0741	.0741	0	1	1	1	0	0	0	0	0	0	0	0	0
009383342	REGULATOR, VOLTAGE	4480.00	.0790	.0790	0	1	1	1	0	0	0	0	0	0	0	0	0
009383345	REGULATOR, VOLTAGE	4150.00	.0715	.0715	0	1	1	1	0	0	0	0	0	0	0	0	0
009383350	REGULATOR, VOLTAGE	4130.00	.0479	.0479	0	1	1	1	0	0	0	0	0	0	0	0	0
009383360	REGULATOR, VOLTAGE	15590.00	.0479	.0479	0	1	1	1	0	0	0	0	0	0	0	0	0
009383361	PRIMER SUPPLY	1570.00	.0824	.0824	0	2	2	2	1	1	1	1	0	0	0	0	0
009383362	PRIMER SUPPLY	1350.00	.0603	.0603	0	1	1	1	1	1	1	1	0	0	0	0	0
009383363	PRIMER SUPPLY	1440.00	.0499	.0499	0	1	1	1	1	1	1	1	0	0	0	0	0
009383365	PRIMER SUPPLY	1280.00	.0119	.0119	0	1	1	1	0	0	0	0	0	0	0	0	0
009383369	PRIMER SUPPLY	469.00	.5994	.5994	0	3	2	2	2	2	2	1	1	0	0	0	0
009383364	PRIMER SUPPLY	391.00	.0920	.0920	0	1	1	1	0	0	0	0	0	0	0	0	0
009383365	PRIMER SUPPLY	2660.00	.0397	.0397	0	1	1	1	1	1	1	1	0	0	0	0	0
009383367	PRIMER SUPPLY	549.00	.2358	.2358	0	2	2	2	1	1	1	1	0	0	0	0	0
009383368	PRIMER SUPPLY	619.00	.0449	.0449	0	1	1	1	1	1	1	1	0	0	0	0	0
009383377	PRIMER SUPPLY	1120.00	.0339	.0339	0	1	1	1	1	1	1	1	0	0	0	0	0
009383370	PRIMER SUPPLY	845.00	.0397	.0397	0	1	1	1	1	1	1	1	0	0	0	0	0
009383380	PRIMER SUPPLY	574.00	.0339	.0339	0	1	1	1	1	1	1	1	0	0	0	0	0
009383391	PRIMER SUPPLY	2340.00	.1183	.1183	0	2	2	2	1	1	1	1	0	0	0	0	0
009383396	PRIMER SUPPLY	601.00	.0341	.0341	0	1	1	1	0	0	0	0	0	0	0	0	0
009383719	ELECTRONIC COMPEN	1070.00	.0612	.0612	0	1	1	1	1	1	1	1	0	0	0	0	0
009383719	ELECTRONIC COMPEN	2000.00	.2158	.2158	0	1	1	1	1	1	1	1	0	0	0	0	0
009383722	DISTRIBUTION UNIT	3770.00	.0658	.0658	0	1	1	1	1	1	1	1	0	0	0	0	0
009383723	REGULATOR, VOLTAGE	12640.00	.0650	.0650	0	1	1	1	1	1	1	1	0	0	0	0	0
009383723	PRIMER SUPPLY	1920.00	.1109	.1109	0	1	1	1	1	1	1	1	0	0	0	0	0
009383740	PRIMER SUPPLY	584.00	.0397	.0397	0	1	1	1	1	1	1	1	0	0	0	0	0
009383898	CONTACT ELECTRICAL	2.41	1.7512	.0398	0	6	5	5	5	4	3	3	0	0	0	0	0
009383898	INDICATOR, DIGITAL D	71.00	.0710	.0710	0	3	3	3	3	2	2	2	1	1	1	1	1
009383898	LINK, TERMINAL CONNE	2.10	.0053	.0053	0	1	1	1	1	1	1	1	0	0	0	0	0
0093838257	TERMINAL, STC	.54	4.7925	.1917	0	9	9	9	8	8	8	8	3	3	3	3	3
009402749	RESISTOR, FIXED, FILM	.18	.0660	.0033	0	3	3	3	2	2	2	2	0	0	0	0	0
00941237	SUPPRESSOR	1.04	.0058	.0058	0	2	2	2	2	2	2	2	0	0	0	0	0
009422591	SWITCH, PUSH	4.54	.0780	.0039	1	2	2	2	2	2	2	2	1	1	1	1	1
009422731	SWITCH, THERMOSTATIC	10.06	1.7094	.0042	0	5	5	5	4	4	4	4	1	1	1	1	1
009430095	SWITCH, THERMOSTATIC	12.63	.0147	.0049	0	1	1	1	1	1	1	1	0	0	0	0	0
009432094	SWITCH, THERMOSTATIC	14.02	.0174	.0058	0	1	1	1	1	1	1	1	0	0	0	0	0
009432614	GEAR ASSEMBLY	36.59	.1028	.1028	0	2	2	2	2	2	2	2	0	0	0	0	0
009433612	SWITCH	3.54	.0390	.0130	0	2	2	2	2	2	2	2	0	0	0	0	0
009433745	WRENCH, OBSERVATION	3.08	.0658	.0658	0	2	2	2	2	2	2	2	0	0	0	0	0
0094338157	INSERT, SCREW THREAD	.70	.0249	.0249	0	2	2	2	2	2	2	2	0	0	0	0	0
009433815	RECEPTACLE	.63	.4284	.0238	0	4	4	4	3	3	3	3	1	1	1	1	1
0094338214	TRAP, SIFTER	24.93	.0348	.0274	1	2	2	2	2	2	2	2	1	1	1	1	1
0094338259	CONNECTOR, RECEPTAC	2.03	.1140	.0114	0	3	3	3	3	3	3	3	0	0	0	0	0
009445302	NUT, SELF-LOCKING, CL	.26	.0011	.0011	0	1	1	1	1	1	1	1	0	0	0	0	0
009450537	MOUNTING PAD, ELECTR	.93	.0234	.0078	0	2	2	2	2	2	2	2	0	0	0	0	0
009452991	CONNECTOR, PLUG, ELEC	93.09	.4428	.0460	0	3	3	3	3	3	3	3	1	1	1	1	1
009457352	TRANSISTOR	1.50	.0029	.0029	0	2	2	2	2	2	2	2	0	0	0	0	0
009459515	CAPACITOR	.60	.0460	.0460	0	3	3	3	3	3	3	3	1	1	1	1	1
009471027	CONNECTOR, RECEPTAC	1.65	.0456	.0038	0	1	1	1	1	1	1	1	0	0	0	0	0
009474175	WASHER, SPRING TENS	2.25	.0019	.0019	0	2	2	2	2	2	2	2	0	0	0	0	0
009475273	CLIP	2.46	.0076	.0076	0	1	1	1	1	1	1	1	0	0	0	0	0
009479353	CONNECTOR BODY, RECE	1.14	.0002	.0002	0	1	1	1	1	1	1	1	0	0	0	0	0
009479759	NUT	16.00	.04502	.04502	0	1	1	1	1	1	1	1	0	0	0	0	0
009485091	CIRCUIT CARD ASSEMB	12.00	.0345	.0345	0	8	7	7	7	6	5	5	3	2	2	2	2
009485092	CIRCUIT CARD ASSEMB				0												



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DATE	09:1979	DESCRIPTION	PRICE	DEMAND	BRF	AQ	BL+P .90	PAGE SPKS .90	BL+P \$	SPRS \$	TRID 104	TRID 104	FLSP	CJS- FLSP	TRID 95	.27P 95	DM
0094A5092		CIRCUIT CARD ASSEMB	25.20	.0501	.0167	1	2	2	1	1	1	1	1	1	1	1	C
0094A5093		CIRCUIT CARD ASSEMB	20.00	.5456	.0124	0	3	3	3	2	2	2	1	1	1	1	1
0094A5094		CIRCUIT CARD ASSEMB	20.00	.9480	.0395	0	4	4	3	3	2	2	1	1	1	1	1
0094A5100		CIRCUIT CARD ASSEMB	21.00	6.9090	.0735	1	9	4	8	7	7	7	3	3	5	3	3
0094A8164		CIRCUIT CARD ASSEMB	9.50	3.6300	.0275	1	7	7	6	5	5	5	1	1	3	2	2
0094A8187		CIRCUIT CARD ASSEMB	9.50	2.3775	.0317	0	6	6	5	5	4	4	1	1	3	3	3
0094A8188		CIRCUIT CARD ASSEMB	6.70	4.5300	.0302	1	8	7	7	6	6	6	3	3	4	4	4
0094A8189		CIRCUIT CARD ASSEMB	12.00	4.5590	.0235	0	8	7	7	6	5	5	3	3	3	3	3
0094A8190		CIRCUIT CARD ASSEMB	19.00	3.2606	.0238	0	7	6	6	5	4	4	1	1	3	2	2
0094A8191		CIRCUIT CARD ASSEMB	5.80	.3108	.0259	0	3	3	3	2	1	1	1	1	1	1	C
0094A8193		CIRCUIT CARD ASSEMB	9.70	.0284	.0142	1	2	2	1	2	1	1	1	1	1	1	C
0094A8194		CIRCUIT CARD ASSEMB	10.00	.1876	.0208	1	3	2	2	2	1	1	1	1	1	1	C
0094A8284		WASHER	.12	.5950	.0238	0	5	5	4	4	2	2	1	1	1	1	1
0094A8280		RESISTOR, FIXED, FILM	1.26	.0590	.0118	0	2	2	2	2	1	1	0	0	0	0	C
009506584		SEMICONDUCTOR DEVICE-DIO	1.66	.0303	.0303	0	2	2	2	1	0	0	0	0	0	0	C
009506594		SEMICONDUCTOR DEVICE	1.67	.0567	.0149	0	2	2	2	1	0	0	0	0	0	0	C
009507260		CIRCUIT CARD ASSEMB	270.00	.0111	.0111	0	1	1	1	0	0	0	0	0	0	0	C
009513214		CIRCUIT CARD ASSEMB	9.68	.2676	.0446	1	3	3	2	2	1	1	1	1	1	1	C
009514974		CONNECTOR-RCPTL ELECT	16.69	.0113	.0113	0	1	1	1	1	0	0	0	0	0	0	C
009518757		TRANSISTOR	.15	2.0196	.0099	0	7	7	6	6	5	5	1	1	1	1	1
009518760		SEMICONDUCTOR DEVICE-DIO	1.78	.0711	.0237	0	2	2	2	2	1	1	0	0	0	0	C
009518987		CONNECTOR	4.15	.0848	.0053	0	2	2	2	2	1	1	0	0	0	0	C
009523367		FUSIBLE	3.22	.1248	.0096	0	3	2	2	2	1	1	0	0	0	0	C
009523654		CONNECTOR, PLUG, ELEC	10.37	.0302	.0151	0	2	2	2	1	0	0	0	0	0	0	C
009527202		TUBE	22.68	.1471	.1471	0	2	2	2	2	1	1	0	0	0	0	C
009543304		SOCKET-RLY	11.68	.0235	.0017	0	2	2	2	1	0	0	0	0	0	0	C
009545315		RESISTOR	.29	.0066	.0066	0	2	2	2	1	0	0	0	0	0	0	C
009547384		TERMINAL, STD	.48	.0242	.0022	0	2	2	2	2	0	0	0	0	0	0	C
009552224		CLAMP	1.50	.0122	.0061	0	2	2	2	1	0	0	0	0	0	0	C
009555595		CONTACT-ELECT	1.59	.4600	.0230	0	4	3	3	3	2	2	0	0	0	0	C
009562235		CLAMP	.19	.1624	.0114	0	3	4	3	3	1	1	0	0	0	0	C
009564973		MOUNTING PAD, ELECTR	.37	.0000	.0000	0	0	0	0	0	0	0	0	0	0	0	C
009568807		ADAPTER, SWITCH ACTU	.57	.0154	.0014	0	2	2	1	1	0	0	0	0	0	0	C
009578199		INSERT, SCREEN THREAD	1.07	.0000	.0000	0	0	0	0	0	0	0	0	0	0	0	C
009584154		SWITCH, SENSITIVE	12.09	.3696	.0112	0	3	3	2	2	1	1	1	1	1	1	C
009594415		CONTACT, ELECTRICAL	.14	.5300	.0151	0	5	4	4	4	2	2	3	3	2	2	C
009597710		TERMINAL BOARD	4.62	.0025	.0025	0	1	1	1	1	0	0	0	0	0	0	C
009629471		CABLE ASSEMBLY, SPEC	6.21	.0126	.0126	0	1	1	1	1	0	0	0	0	0	0	C
009634307		MOUNTING PAD, ELECTR	.21	.0004	.0001	0	1	1	1	1	0	0	0	0	0	0	C
009642555		CLAMP	.03	.0288	.0048	0	7	5	5	4	4	4	1	1	1	1	C
009642557		CLAMP-LOOP	.04	1.3455	.0195	0	7	6	6	6	3	3	1	1	1	1	C
009643984		CONNECTOR, RECEPTACL	4.52	.0299	.0299	0	2	2	2	1	0	0	0	0	0	0	C
009651491		LIGHT-IND	1.09	1.5624	.0252	0	6	6	5	5	3	3	1	1	1	1	C
009652077		TAPE, TELETYPEWRITER	.52	.7999	.7999	0	5	4	4	4	2	2	3	3	2	2	C
009659594		SEMICONDUCTOR DEVICE-DIO	.50	15.6464	.9779	0	16	15	15	13	14	14	17	17	11	11	C
009661614		INSERT, SCREW THREAD	.43	.5046	.0029	0	4	4	4	3	2	2	3	3	2	2	C
009665044		BUSHING, ELECTRICAL	.05	.0036	.0036	0	4	3	3	3	1	1	0	0	0	0	C
009662392		INSULATOR, WASHER	1.01	.2856	.0238	0	6	6	5	5	4	4	1	1	1	1	C
009676501		CLAMP-LOOP	.03	1.0206	.0189	0	10	9	9	8	7	7	10	10	6	6	C
009696502		CLAMP-LOOP	.03	3.5890	.0485	0	2	2	2	1	0	0	0	0	0	0	C
009695837		SWITCH, TOGGLE	14.20	.0283	.0283	0	1	1	1	1	0	0	0	0	0	0	C
009711003		KEY, SWITCH	.30	.0023	.0023	0	1	1	1	1	0	0	0	0	0	0	C
009711747		TERMINAL BOARD	1.61	.0010	.0010	0	1	1	1	1	0	0	0	0	0	0	C
009717017		INSERT, SCREEN THREAD	.78	.0072	.0003	0	2	2	2	2	1	1	0	0	0	0	C



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DATE	NIIN	NOMENCLATURE	PRICE	DEMAND	BRF	ADQ	BL+P \$90	PAGE SPAS \$90	BL+P \$90	SPMS \$90	TRID 104	.273 104	FLSP	C.S. FLSP	TRID 95	.278 95	DMD
	009723772	MOTOR UNIT	204.37	.0189	.0189	0	1	1	1	1	104	0	0	0	1	1	0
	009726331	RESISTOR, VARIABLE, W	78.11	.0616	.0616	1	2	2	1	1	1	1	1	1	1	1	0
	009727215	PUNCH BLOCK	17.23	.0796	.0796	0	2	2	1	1	1	1	0	0	1	1	0
	009733514	CONNECTOR, RECEPTACL	199.00	.1067	.1067	0	2	2	1	1	0	1	1	0	1	1	0
	009735941	GUARD	3.28	.2567	.2567	0	3	3	3	2	2	2	1	1	2	1	0
	009745894	RING	.15	.5424	.5424	0	5	4	4	4	2	3	1	1	1	1	0
	009745904	WASHER	.12	.3659	.3659	0	4	4	4	3	2	3	1	1	1	1	0
	009745904	WASHER	4.03	.0001	.0001	0	1	1	0	0	0	0	0	0	0	0	0
	009749334	SLATE, TELETYPE UNIT	20.76	.0673	.0673	0	2	2	1	1	0	1	0	0	0	0	0
	009772207	SWITCH, TOGGLE	17.01	.0708	.0708	1	2	2	2	2	1	1	1	1	1	1	0
	009782544	LIGHT, INDICATOR	2.61	.0636	.0636	0	2	2	2	2	1	1	0	0	0	0	0
	009784108	FILTER, RADIO INTER	19.41	.2632	.2632	0	3	3	3	3	2	2	1	1	1	1	0
	009785944	DINNE	.68	.4460	.4460	0	4	4	4	3	2	2	1	1	1	1	0
	009787944	SCREW, EXTERNALLY RE	.26	.0008	.0008	0	1	1	1	1	0	0	0	0	0	0	0
	009788463	LENS-IND LGT RED	.22	.0108	.0108	0	2	2	2	1	0	0	0	0	0	0	0
	009833064	TERMINAL BOARD	.68	.0001	.0001	0	1	1	1	1	0	0	0	0	0	0	0
	009833051	TERMINAL BOARD	1.24	.0068	.0068	0	2	1	1	1	0	0	0	0	0	0	0
	009836052	TERMINAL BOARD	1.58	.0054	.0054	0	1	1	1	1	0	0	0	0	0	0	0
	009836053	TERMINAL BOARD	1.70	.5121	.5121	0	1	1	1	0	0	0	0	0	0	0	0
	009836053	TERMINAL BOARD	2.76	.0068	.0068	0	1	1	1	1	0	0	0	0	0	0	0
	009836082	TERMINAL BOARD	.73	.0104	.0104	0	2	2	2	1	0	0	0	0	0	0	0
	009836087	TERMINAL BOARD	1.55	.0140	.0140	0	2	2	2	1	0	0	0	0	0	0	0
	009836104	TERMINAL BOARD	1.40	.0024	.0024	0	2	2	1	1	0	0	0	0	0	0	0
	009836105	TERMINAL BOARD	2.32	.0096	.0096	0	2	1	1	1	0	0	0	0	0	0	0
	009836107	TERMINAL BOARD	2.40	.0022	.0022	0	1	1	1	1	0	0	0	0	0	0	0
	009836384	TERMINAL BOARD	1.75	.0005	.0005	0	1	1	1	1	0	0	0	0	0	0	0
	009843134	CAPACITOR-FXD 3300UF	3.70	.0795	.0795	1	2	2	2	2	1	1	1	1	1	1	0
	009845715	SWITCH, RADIO FREQUE	92.02	.2094	.2094	0	2	2	2	2	1	1	1	1	1	1	0
	009846262	CABLE	.13	.2156	.2156	0	4	4	4	3	3	2	1	1	1	1	0
	009846311	CONNECTOR, PLUG, ELEC	3.65	.1908	.1908	0	3	3	3	2	1	1	1	1	1	1	0
	009848589	RESISTOR, VARIABLE, W	1.61	.0398	.0398	0	2	2	2	2	0	0	0	0	0	0	0
	009851004	RESISTOR, VARIABLE, W	1.61	.0154	.0154	0	2	2	2	2	0	0	0	0	0	0	0
	009851460	SEMICONDUCTOR DEVIC	6.15	.3098	.3098	1	3	3	3	3	1	2	1	1	1	1	0
	009853674	SCREW, EXTERNALLY RE	.26	.0046	.0046	0	2	2	2	2	1	0	0	0	0	0	0
	009857244	GREASE-AGT	2.04	1.2614	1.2614	0	5	5	5	4	1	0	1	1	1	1	0
	009859091	SEMI CONDUCTOR	1.11	5.0658	5.0658	0	9	9	8	7	7	0	3	3	3	3	0
	009863434	TIP	A.52	.0006	.0006	0	3	3	3	0	1	0	1	1	1	1	0
	009874634	FILTER, RADIO FREQUE	18.73	.2610	.2610	0	0	0	2	2	1	0	1	1	1	1	0
	009877051	BIT, WIRE WRAPPING	14.45	.0038	.0038	0	0	0	0	0	0	0	0	0	0	0	0
	009877054	SLEEVE, WRAPPING TPO	3.12	.0158	.0158	0	0	0	0	0	0	0	0	0	0	0	0
	009877057	SLEEVE, WRAPPING TPO	4.52	.9120	.9120	0	0	0	0	0	0	0	0	0	0	0	0
	009877059	SLEEVE, WRAPPING TPO	5.09	.0794	.0794	0	0	0	0	0	0	0	0	0	0	0	0
	009877060	SLEEVE, WRAPPING TPO	27.50	.0397	.0397	0	0	0	0	0	0	0	0	0	0	0	0
	009894859	SCREW, EXTERNALLY RE	.11	.0004	.0004	0	1	1	1	1	0	0	0	0	0	0	0
	009904337	LENS-LIGHT	.22	.0178	.0178	0	2	2	2	2	1	1	1	1	1	1	0
	009909733	INSERT, SCREW THREAD	.54	.0020	.0020	0	1	1	1	1	0	0	0	0	0	0	0
	009909716	INSERT, SCREW THREAD	.11	27.7095	27.7095	0	24	22	22	20	23	29	10	10	19	10	10
	009913519	TRANSFORMER, POWER, S	46.22	.0126	.0126	0	1	1	1	1	0	0	0	0	0	0	0
	009924094	WRENCH	.22	.0182	.0182	0	0	0	0	0	0	0	0	0	0	0	0
	009933473	CIRCUIT CARD ASSEMB	18.50	.0471	.0471	1	2	2	1	1	1	1	1	1	1	1	0
	009933879	FUSP HOLDER	.75	.0021	.0021	0	3	3	3	3	1	1	1	1	1	1	0
	009950590	ADHESIVE	4.36	.2219	.2219	0	4	4	4	2	2	2	1	1	1	1	0
	009952310	SEMICONDUCTOR DEVIC	.19	.0109	.0109	0	1	1	1	1	1	1	1	1	1	1	0
	009953064	BRAKE ASSEMBLY	121.00	.0113	.0113	0	1	1	1	1	1	1	1	1	1	1	0
	009953065	GUIDE ASSEMBLY	93.00	.0285	.0285	0	1	1	1	1	1	1	1	1	1	1	0

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NIT#	ITEM CLATURE	PRICE	DEMAND	BREF	ADU	BL+P .90\$	SPRS	BL+P \$S	SPRS	IRID	104	104	FLSP	C.S. FLSP	IRID	.27B	FLSP	C.S. FLSP
009933666	PULLY ASSEMBLY	53.14	.0012	.0012	0	1	1	0	0	0	0	0	0	0	0	0	0	0
009933667	LAMP ASSEMBLY	15.25	.0634	.0634	0	2	2	1	1	1	1	1	1	0	0	0	0	0
009933670	CAPSTAN ASSEMBLY	26.50	.4447	.4447	0	3	3	2	2	2	2	2	2	1	1	1	1	1
009933837	LINK, TERMINAL CODE	2.00	.0053	.0053	0	1	1	1	1	1	1	1	1	0	0	0	0	0
009935800	PHIL STRAIGHT HEADLE	.83	.0005	.0005	0	1	1	1	1	1	1	1	1	0	0	0	0	0
009937307	BUTTON PLUG	.03	.0001	.0001	0	1	1	1	1	1	1	1	1	0	0	0	0	0
009972825	CONNECTOR, PLUG, FLFC	2.65	.0090	.0090	0	2	2	2	2	2	2	2	2	1	1	1	1	1
009974401	SWITCH	7.69	.0055	.0055	0	1	1	1	1	1	1	1	1	0	0	0	0	0
009973452	SLVG.	.06	.0000	.0000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010033582	AMPLIFIER, ELECTRONI	4180.00	.6198	.3099	0	2	2	1	1	1	1	1	1	1	1	1	1	1
010037543	CHARGER, BATTERY	7.45	.0299	.0299	0	2	2	0	0	0	0	0	0	0	0	0	0	0
010043282	CAPACITOR, FIXED, ELE	5.34	.0206	.0206	0	2	2	2	2	2	2	2	2	0	0	0	0	0
010043334	CAPACITOR, FIXED, ELE	8.35	.0624	.0144	0	1	1	0	0	0	0	0	0	0	0	0	0	0
010045275	FAN, CENTRIFUGAL	476.15	.0124	.0124	0	1	1	2	2	2	2	2	2	0	0	0	0	0
010045424	CABLE ASSEMBLY, PCNE	234.32	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010045425	CABLE ASSEMBLY, PCNE	234.32	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010045429	CAPACITOR, FIXED, ELE	1.50	.0338	.0338	0	4	4	4	4	4	4	4	4	1	1	2	2	1
010047041	DIPP, ELECTRICAL	216.14	.0099	.0099	0	1	1	1	1	1	1	1	1	0	0	0	0	0
010047400	LINE RADIO FREQUENCY	277.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	0	0	0
010050309	SWITCH SUBASSEMBLY	15.84	.0950	.0950	0	4	4	3	3	3	3	3	3	1	1	2	2	1
010051504	CONN, PLU	54.00	.0198	.0198	0	1	1	1	1	1	1	1	1	0	0	0	0	0
010055081	WAVEGUIDE ASSEMBLY	60.35	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0	0	0
010055082	WAVEGUIDE ASSEMBLY	56.71	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0	0	0
010055083	SEAL, WAVEGUIDE	35.65	.0057	.0057	0	1	1	1	1	1	1	1	1	0	0	0	0	0
010055129	RECTIFIER, SILICON DU	43.84	.1194	.0199	1	2	2	1	1	1	1	1	1	1	1	1	1	1
010055135	SHIELDING GASKET, FL	11.77	.0049	.0049	0	2	2	1	1	1	1	1	1	0	0	0	0	0
010055504	CONDUCTOR, PLUG, FLEC	34.38	.0495	.0099	0	2	2	1	1	1	1	1	1	0	0	0	0	0
010056530	WAVEGUIDE ASSEMBLY	58.85	.0018	.0009	0	1	1	0	0	0	0	0	0	0	0	0	0	0
010056531	WAVEGUIDE ASSEMBLY	60.35	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0	0	0
010056532	WAVEGUIDE ASSEMBLY	63.11	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0	0	0
010056594	SHIELDING GASKET, FL	4.26	.0054	.0000	0	1	1	1	1	1	1	1	1	0	0	0	0	0
010056604	FIRE TESH, MATTED	3.21	.0392	.0049	0	2	2	2	2	2	2	2	2	0	0	0	0	0
010059628	WAVEGUIDE ASSEMBLY	58.08	.0018	.0009	0	3	3	2	2	2	2	2	2	0	0	0	0	0
010060732	FILTER ELEMENT, FLUI	14.59	.2786	.0199	0	1	1	2	2	1	1	1	1	1	1	0	0	0
010061455	FILTER ELEMENT, FLUI	16.48	.0018	.0009	0	1	1	1	1	1	1	1	1	0	0	0	0	0
010061454	FILTER ELEMENT, FLUI	45.45	.0049	.0049	0	1	1	1	1	1	1	1	1	0	0	0	0	0
010067737	CAPACITOR, FIXED, PLA	94.51	.0058	.0058	0	1	1	1	1	1	1	1	1	0	0	0	0	0
010067845	WAVEGUIDE	58.85	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0	0	0
010067917	DUMMY LOAD, ELECTRIC	310.30	.0018	.0009	0	1	1	0	0	0	0	0	0	0	0	0	0	0
010068264	SWITCH, POTATY	65.27	.0199	.0199	0	1	1	0	0	0	0	0	0	0	0	0	0	0
010073037	PA FLPL, RADIO FREQU	214.60	.0009	.0009	0	1	1	1	1	1	1	1	1	0	0	0	0	0
010075594	RESISTOR, FIXED, FILM	1.67	.0398	.0199	0	2	2	2	2	2	2	2	2	0	0	0	0	0
010080862	RIT, AIRF WRAPPING	33.00	.0299	.0299	0	4	4	3	3	3	3	3	3	1	1	1	1	1
010085790	CAPACITOR, FIXED, ELE	3.75	.4536	.0216	0	4	4	4	4	4	4	4	4	1	1	2	2	1
010087725	FERRULE, RADIO FREQU	.10	.3950	.0379	0	4	4	4	4	4	4	4	4	1	1	2	2	1
010087724	FERRULE, RADIO FREQU	.10	.3950	.0379	0	4	4	4	4	4	4	4	4	1	1	2	2	1
010087727	FERRULE, RADIO FREQU	.10	.3950	.0379	0	4	4	4	4	4	4	4	4	1	1	2	2	1
010087728	FERRULE, RADIO FREQU	.11	.3950	.0379	0	4	4	4	4	4	4	4	4	1	1	2	2	1
010087729	FERRULE, RADIO FREQU	.25	.3950	.0379	0	4	4	4	4	4	4	4	4	1	1	1	1	1
010090614	DIAL, SCALE	163.00	.0027	.0009	0	1	1	0	0	0	0	0	0	0	0	0	0	0
010091670	HOSE, AIR NUCT	20.00	.0009	.0009	0	1	1	1	1	1	1	1	1	0	0	0	0	0
010092111	SPOOL, PAPER TAPE	1.67	.0078	.0078	0	2	2	1	1	1	1	1	1	0	0	0	0	0
010095634	FERRULE, RADIO FREQU	.10	.3950	.0379	0	4	4	4	4	4	4	4	4	1	1	2	2	1
010097407	SPRING, HELICAL, TORS	1.67	.0156	.0078	0	2	2	1	1	1	1	1	1	0	0	0	0	0
010102402	NUT, PLAIN, ROUND	108.67	.0118	.0359	0	1	1	1	1	1	1	1	1	0	0	0	0	0

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NIIN	NOMENCLATURE	PRICE	DEMAND	QMF	ADQ	BL+P .908	PAGE SPRS .90	BL+P \$	44 SPRS \$	TRID 104	.278 104	FLSP	C.S. FLSP	TRID 95	.278 95	DMU
010102524	CABLE,RADIO FREQUEN	2.21	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	C
010115495	CONNECTOR,RECEPTACL	56.71	.0312	.0078	0	1	1	1	1	1	0	0	0	0	0	C
010119229	SOCKET,PLUG-IN ELFC	5.35	.0316	.0158	0	1	2	1	1	1	0	0	0	0	0	C
010125067	WAVEGUIDE ASSEMBLY	70.29	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	C
010127963	FILTER,HAND PASS	930.50	.0057	.0057	0	1	1	0	0	0	0	0	0	0	0	C
010128050	ADAPTER,WAVEGUIDE	642.00	.0179	.0199	0	1	1	0	0	0	0	0	0	0	0	C
010129-15	CONNECTOR,RECEPTACL	56.20	.0147	.0049	0	1	1	1	1	1	0	0	0	0	0	C
010143436	WAVEGUIDE ASSEMBLY	81.00	.0057	.0057	0	1	1	1	1	1	0	0	0	0	0	C
010147144	FILTER,ELEMENT,AIR	20.23	.0099	.0079	0	1	1	1	1	1	0	0	0	0	0	C
010152751	WAVE, AIR DUCT	13.65	.0399	.0299	0	2	2	2	2	2	1	0	0	0	0	C
010153494	KEYTOP	.62	.0049	.0049	0	2	0	0	0	0	0	0	0	0	0	C
010153851	CONNECTOR BODY, RECE	22.47	.0496	.0124	0	2	2	1	1	1	0	0	0	0	0	C
010153905	SWITCH SUBASSEMBLY	7.68	.0079	.0079	0	2	1	1	1	1	0	0	0	0	0	C
010154495	CONN.	33.17	.0798	.0057	0	2	2	1	1	1	1	0	0	0	0	C
010154498	CONN., PLU	22.47	.0496	.0124	0	2	2	1	1	1	0	0	0	0	0	C
010155118	CONN.	8.03	.0392	.0049	0	2	2	1	1	1	0	0	0	0	0	C
010155754	CONNECTOR, PLUG/ELEC	10.06	.0018	.0009	0	2	1	1	1	1	0	0	0	0	0	C
010158620	RELAY, ARMATURE	321.00	.1194	.0597	0	2	1	1	1	1	0	0	0	0	0	C
010158630	RELAY, ARMATURE	47.62	.0597	.0597	0	2	2	1	1	1	0	0	0	0	0	C
010160227	CRIL-4F	.30	.1080	.0049	0	3	3	3	3	3	1	0	1	1	1	C
010161203	ADAPTER, WAVEGUIDE	202.23	.0049	.0049	0	1	1	1	0	0	0	0	0	0	0	C
010161222	DUMMY LOAD, ELECTRIC	963.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	C
010168111	CONNECTOR, RECEPTACL	17.66	.3968	.0124	0	3	3	2	2	2	1	1	1	1	1	C
010170107	CAPACITOR, FIXED/ELE	3.21	.0114	.0057	0	2	2	1	1	1	0	0	0	0	0	C
010170359	RELAY, ARMATURE	914.85	.0577	.0577	0	1	1	1	1	1	0	0	0	0	0	C
010175494	CONNECTOR, RECEPTACL	52.43	.0049	.0049	0	1	1	1	1	1	0	0	0	0	0	C
010178269	WAVEGUIDE ASSEMBLY	172.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	C
010178340	PAD, PROTECTIVE	199.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	C
010212643	EXTENSION, SOCKET WR	23.00	.0009	.0009	0	1	1	1	1	1	0	0	0	0	0	C
010214512	RESISTOR	2.25	.0032	.0032	0	1	1	1	1	1	0	0	0	0	0	C
010216327	WAVEGUIDE ASSEMBLY	379.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	C
010216328	SEAL, WAVEGUIDE	19.50	.4655	.0099	0	3	3	3	3	3	1	1	1	1	1	C
010215330	CABLE ASSEMBLY, RADI	616.00	.0009	.0009	0	0	0	0	0	0	0	0	0	0	0	C
010221694	ADHESIVE	1.20	.0499	.0499	0	2	2	2	2	2	1	1	1	1	1	C
010221697	ADHESIVE	1.20	.0499	.0499	0	2	2	2	2	2	1	1	1	1	1	C
010221703	RESISTOR ASSEMBLY	18.50	.0999	.0999	0	2	2	2	2	2	1	1	1	1	1	C
010222304	WIRE MESH, KNITTED	16.05	.0049	.0049	0	2	2	1	1	1	0	0	0	0	0	C
010223005	INSULATOR, BUSHING	.43	3.2548	.0079	0	8	8	7	7	6	6	1	1	4	2	C
010224117	BOLT STRAP	500.00	.0099	.0099	0	1	1	0	0	0	0	0	0	0	0	C
010224414	FILTER ELEMENT, AIR	26.75	.0196	.0049	0	1	1	1	1	1	0	0	0	0	0	C
010224755	CIRCUIT CARD ASSEMB	228.00	1.1070	.0205	3	3	3	3	3	3	3	3	3	3	3	C
010226787	CIRCUIT CARD ASSEMB	300.00	.0399	.0399	0	1	1	1	1	1	1	1	1	1	1	C
010228256	WINDOW, OBSERVATION	127.00	.0098	.0049	0	1	1	1	1	1	0	0	0	0	0	C
010228257	WINDOW, OBSERVATION	185.00	.0198	.0099	0	1	1	1	1	1	0	0	0	0	0	C
010228258	WINDOW, OBSERVATION	20.50	.0198	.0099	0	1	1	1	1	1	0	0	0	0	0	C
010228259	WINDOW, OBSERVATION	17.50	.0198	.0099	0	1	1	1	1	1	0	0	0	0	0	C
010232514	CONNECTOR, RECEPTACL	19.80	.0198	.0099	0	1	1	1	1	1	0	0	0	0	0	C
010232516	CONNECTOR, RECEPTACL	11.77	.0124	.0124	0	1	1	1	1	1	0	0	0	0	0	C
010232517	CONNECTOR, RECEPTACL	11.77	.0248	.0124	0	2	2	2	2	2	0	0	0	0	0	C
010232518	CONNECTOR, RECEPTACL	17.66	.0372	.0124	0	2	2	1	1	1	0	0	0	0	0	C
010232519	CONNECTOR, RECEPTACL	30.50	.0018	.0009	0	1	1	1	1	1	0	0	0	0	0	C
010232520	CONNECTOR, RECEPTACL	26.75	.0297	.0099	0	2	2	1	1	1	0	0	0	0	0	C
010232521	CONNECTOR, RECEPTACL	25.68	.0057	.0057	0	1	1	1	1	1	0	0	0	0	0	C
010232523	CONNECTOR, RECEPTACL	20.33	.0248	.0124	0	1	1	1	1	1	0	0	0	0	0	C
010232524	CONNECTOR, RECEPTACL	20.33	.0124	.0124	0	1	1	1	1	1	0	0	0	0	0	C



[illegible]



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DATE	091979	MIN	NOMENCLATURE	PRICE	DEMAND	BRF	AQ9	BL+P \$	SPKS \$	TRID 104	.273 104	FLSP	C.S. FLSP	TRID 95	.273 95	DMD
010241864	CONNECTOR, RECEPTACL	15.50	.0248	0	.0124	0	0	1	1	1	0	0	0	0	0	0
010241864	CONNECTOR, RECEPTACL	14.50	.0124	0	.0124	0	0	1	1	1	0	0	0	0	0	0
010241864	CONNECTOR, RECEPTACL	16.50	.0992	0	.0124	0	0	2	2	1	1	0	0	0	0	0
010241864	CONNECTOR, RECEPTACL	17.00	.0009	0	.0009	0	0	1	1	1	1	0	0	0	0	0
010241864	CONNECTOR, RECEPTACL	25.00	.0198	0	.0399	0	0	1	1	1	1	0	0	0	0	0
010241864	CONNECTOR, RECEPTACL	42.50	.0198	0	.0399	0	0	1	1	1	1	0	0	0	0	0
010241864	CONNECTOR, RECEPTACL	29.50	.0744	0	.0124	0	0	2	2	1	1	0	0	0	0	0
010242720	ADAPTER, CONNECTOR	50.00	.0049	0	.0049	0	0	1	1	1	1	0	0	0	0	0
010242605	CONNECTOR, RECEPTACL	57.00	.0027	0	.0009	0	0	1	1	1	1	0	0	0	0	0
010244160	CONNECTOR, PLUG, ELFC	16.50	.0063	0	.0009	0	0	1	1	1	1	0	0	0	0	0
010244882	CONNECTOR, RECEPTACL	16.00	.0248	0	.0124	0	0	2	1	1	1	0	0	0	0	0
010245844	ADAPTER, CONNECTOR	18.53	.0049	0	.0049	0	0	1	1	1	1	0	0	0	0	0
010247973	STRIPPER, WIRE, HAND	25.00	.0000	0	.0000	0	0	1	1	1	1	0	0	0	0	0
010250441	CONTACT, ELECTRICAL	1.00	13.6863	0	.0399	0	0	15	14	13	13	0	0	0	0	0
010250502	GREASE, GENERAL PURP	.59	1.9998	0	.0499	0	0	6	6	5	5	1	1	0	0	0
010250533	THINNER, ADHESIVE	2.00	.0499	0	.0499	0	0	2	2	2	2	0	0	0	0	0
010259717	CLIP, ELECTRICAL	.13	5.7670	0	.0079	0	0	11	10	9	9	11	3	7	3	0
010267710	POWER SUPPLY	1320.00	.0396	0	.0198	0	0	1	0	0	0	0	0	0	0	0
010269277	CABLE ASSEMBLY, RADI	588.00	.0009	0	.0009	0	0	0	0	0	0	0	0	0	0	0
010269277	CABLE ASSEMBLY, RADI	524.00	.0009	0	.0009	0	0	0	0	0	0	0	0	0	0	0
010269270	CABLE ASSEMBLY, RADI	553.00	.0009	0	.0009	0	0	0	0	0	0	0	0	0	0	0
010269280	CABLE ASSEMBLY, RADI	553.00	.0009	0	.0009	0	0	0	0	0	0	0	0	0	0	0
010269281	CABLE ASSEMBLY, RADI	524.00	.0009	0	.0009	0	0	0	0	0	0	0	0	0	0	0
010269282	CABLE ASSEMBLY, RADI	524.00	.0009	0	.0009	0	0	0	0	0	0	0	0	0	0	0
010270654	REGULATOR, VOLTAGE	4120.00	.0199	0	.0199	0	0	1	1	0	0	0	0	0	0	0
010273334	CABLE ASSEMBLY, RADI	553.00	.0009	0	.0009	0	0	0	0	0	0	0	0	0	0	0
010273364	CONTACT, ELECTRICAL	1.23	1.9750	0	.0079	0	0	6	6	5	5	1	1	1	1	0
010273380	CONTACT, ELECTRICAL	1.30	.0948	0	.0079	0	0	3	2	2	2	1	1	1	1	0
010273391	CONTACT, ELECTRICAL	1.30	4.6926	0	.0079	0	0	10	9	8	8	19	3	16	3	0
010273392	CONTACT, ELECTRICAL	1.30	15.2233	0	.0079	0	0	16	15	13	13	17	6	10	6	0

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01032155 NONRECLATLSE  
 01032156 AGO, CUECH  
 01032157 PLUG, FACIMITE THREAD  
 01032158 DL  
 01032159 CONNECTOR, RECEIPTAL

PRICE	DEMAND	RRF	AUQ	BL+P 1908	SPAS 190	BL+P 88	SPKS 88	TRID 104	273 104	FLSP	C.S. FLSP	TRID 95	273 95	DMD
80.00	.0019	.0019	0	1	1	0	0	0	0	0	0	0	0	0
93.00	.0114	.0057	0	1	1	1	1	0	0	0	0	0	0	0
194.00	.0057	.0057	0	1	1	0	0	0	0	0	0	0	0	0
141.00	.0009	.0009	0	1	1	0	0	0	0	0	0	0	0	0

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13. ABSTRACT This study evaluates the proposed Spares Allocation Model for determining shipboard supply requirements for supporting the AEGIS Weapon System. Included in this evaluation were: (1) a detailed comparison of the proposed model with several alternative models; (2) a sensitivity analysis of two data elements required by the proposed model; (3) an examination of theoretical differences between the proposed model and a conceptually similar model (Black & Proschan); and (4) an examination of the ADP requirements for the proposed model. Model comparisons were made in terms of range of items stocked, investment, effectiveness, and range movement. Historical usage data were used in measuring effectiveness. The study indicated the proposed Spares Allocation Model and the Black & Proschan Model would give significant improvement in support over the other alternatives. However, these two models produced significantly larger ranges than the alternatives and, at high system protection levels, required significantly higher investment. Both models require large computer core storage capacity which limits efficient model execution to only the largest computer systems.			

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